31(4)

Fisheries Review

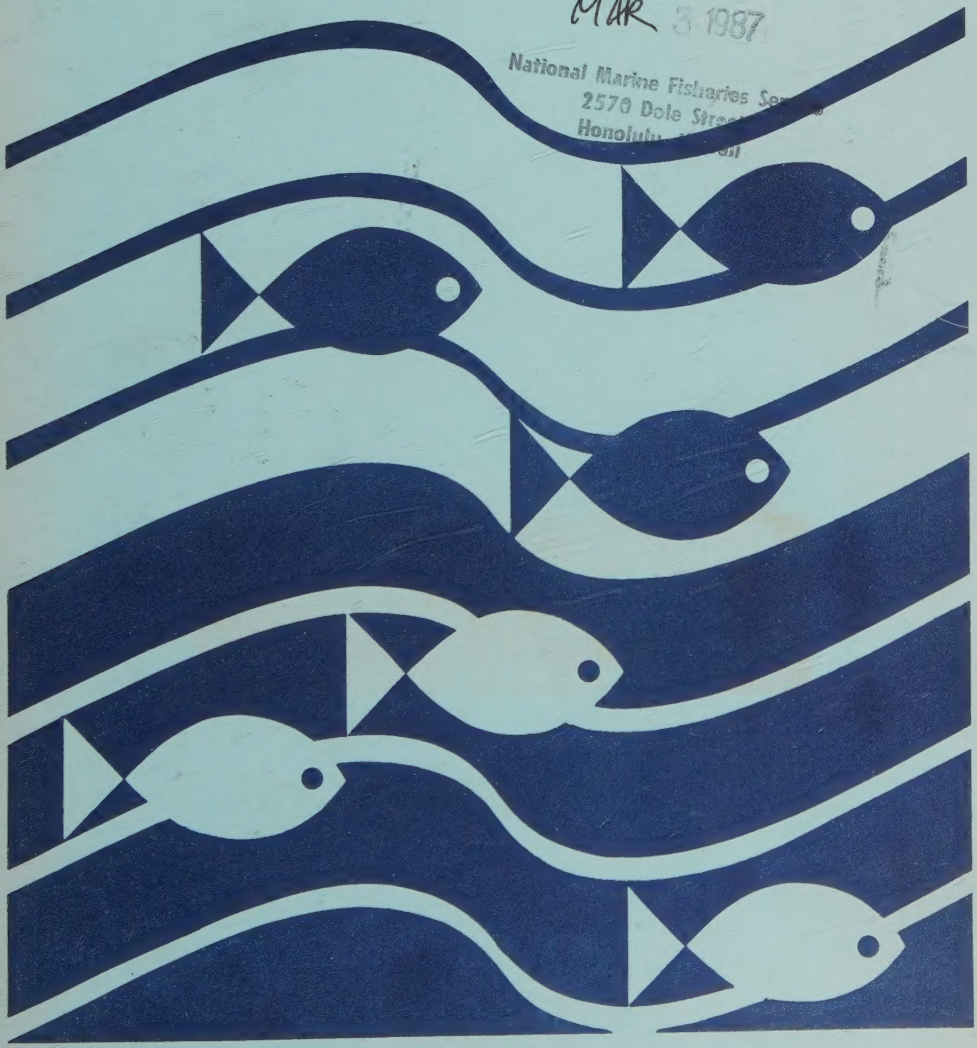
Vol. 31, No. 4, 1986

DEPARTMENT OF THE INTERIOR
U.S. FISH AND WILDLIFE SERVICE

LIBRARY

MAR 3 1987

National Marine Fisheries Service
2570 Dole Street
Honolulu



Fisheries Review

Roger Schoumacher, Editor

Office of Information Transfer
Editorial Section
U.S. Fish and Wildlife Service
1025 Pennock Place
Fort Collins, Colorado 80524

Fisheries Review is intended to furnish fishery biologists with abstracts of current literature in sport fishery research and management.

One volume, consisting of four numbers, is issued each year. Each number contains separate Author, Geographic, and Taxonomic, and Subject indexes, and a list of publications screened. Authors who publish in journals not screened for *Fisheries Review*, and who would like their publications included, should submit abstracts to the Editor.

The U.S. Fish and Wildlife Service assumes no responsibility for the accuracy of material from outside sources, and can only supply copies of articles written and published by the U.S. Fish and Wildlife Service.

Fisheries Review

Vol. 31, No. 4 1986

CONTENTS

AQUATIC PLANTS AND THEIR CONTROL 1

CULTURE AND PROPAGATION

General Fish Culture..... 1
Trout and Salmon Culture..... 2
Warmwater Culture..... 4
Mariculture..... 11
Feeds, Feeding and Nutrition..... 16
Transporting Fish..... 23
Aquariums..... 23
Miscellaneous Culture Techniques and Equipment..... 24

LIMNOLOGY AND OCEANOGRAPHY

General..... 25
Physical..... 26
Chemical..... 26
Benthos..... 28
Plankton..... 29
Primary Production..... 32

MORPHOLOGY, PHYSIOLOGY, GENETICS AND BEHAVIOR

Morphology..... 32
Physiology..... 45
Genetics, Variation Studies, Hybridization..... 74
Behavior..... 80

NATURAL HISTORY

Life Histories - General Works..... 87
Population Studies - Production, Standing Crop, Recruitment. 95
Spawning Habits and Movements, Sex Ratios, Fecundity, etc... 103
Movements, Seasonal and Depth Distribution, etc..... 109
Foods and Feeding..... 112
Age and Growth..... 127
Geographical Distribution, Fish surveys, etc..... 131
Abundance, Factors of; Survival and Mortality..... 138
Identification, Keys, Classification..... 142

PARASITES AND DISEASES

General..... 154
Bacterial..... 156
Fungal..... 164
Protozoan..... 165
Viral..... 167
Other..... 170

POLLUTION AND TOXICOLOGY

Pollution..... 179
Fish Kills..... 187
Toxicology; Bioassays..... 187
Fish Toxicants..... 197

RESEARCH AND MANAGEMENT

General..... 198
Administration and Planning..... 201
Reports of Fishery Stations, States, etc..... 201
Habitat Alterations..... 201
Harvest, Creel Census, etc..... 208
Regulations..... 210
Fish Control and Removal..... 212
Marking and Tagging..... 212
Stocking and Introductions..... 213
Fishing Gear and Techniques..... 216
Fertilization of Soil and Water..... 219
Fishways, Fish Passage through Dams, etc..... 219
Mathematical, Statistical Methods and Modeling..... 220
Lake Management and Research..... 223
River and Stream Management and Research..... 224
Farm Pond and Small Impoundment Management and Research..... 227
Large Impoundment Management and Research..... 228
Estuary Management and Research..... 228
Marine Management and Research..... 229
Utilization of Fishery Products..... 235
Miscellaneous Techniques and Equipment..... 235
Reviews, Bibliographies, etc..... 239

AUTHOR INDEX (Salmon)..... 241
GEOGRAPHIC INDEX (Yellow)..... 377
SYSTEMATIC INDEX (Blue)..... 399
SUBJECT INDEX (White)..... 519

AQUATIC PLANTS AND THEIR CONTROL

86-003372 Martyn, R. D.; R. L. Noble; P. W. Bettoli and R. C. Maggio. MAPPING AQUATIC WEEDS WITH AERIAL COLOR INFRARED PHOTOGRAPHY AND EVALUATING THEIR CONTROL BY GRASS CARP. *J. Aquat. Plant Manage.* 24(1):46-56. 1986. FR 31(4)
[Tex. Agric. Exp. Stn., College Station 77843]

GENERAL FISH CULTURE

86-003373 Bignami, S. and F. Costantini. [ITALIAN AQUACULTURE PRESENT AT THE FAIR "INRYBPROM '85" IN LENINGRAD.] *Riv. It. Piscic. Ittiop.* 21(1):2-5. 1986. In Italian with English summ. FR 31(4)
[Med. Vet., Via Del Corso 46, 40051 Altedo, Bologna, Italy]

86-003374 Billard, R. HOW TO ACHIEVE HIGH QUALITY RESEARCH ON AQUACULTURE IN DEVELOPING COUNTRIES. *Aquaculture* 54(1-2):161-163. 1986. FR 31(4)
[INRA, Cent. Natl. Rech. Zootech., Lab. Physiol. Poissons, F-78350 Jouy-en-Josas France]

86-003375 Billard, R. SYMBIOTIC INTEGRATION OF AQUACULTURE AND AGRICULTURE. *Fisheries (Bull. Am. Fish. Soc.)* 11(4):14-19. 1986. FR 31(4)
[Dep. Hydrobiol., French Natl. Inst. Agric. Res., C.N.R.Z. Domaine de Vilvert, 78350 Jouy-en-Josas, France]

86-003376 Boersen, G. and H. Westers. WASTE SOLIDS CONTROL IN HATCHERY RACEWAYS. *Prog. Fish-Cult.* 48(2):151-154. 1986. FR 31(4)
[Mich. Dep. Nat. Resour., Surf. Water Qual. Div., Lansing 48909]

86-003377 Coche, A. G. and H. Van der Wal. SIMPLE METHODS FOR AQUACULTURE: WATER FOR FRESHWATER FISH CULTURE. *FAO Training Ser.* 4. 111p. 1981. FR 31(4)
[FAO of the UN, Rome, Italy]

86-003378 Jana, B. B. and S. K. Roy. SEASONAL AND SPATIAL DISTRIBUTION PATTERN OF NITROGEN FIXING BACTERIA IN FISH PONDS UNDER DIFFERENT MANAGEMENT SYSTEMS. *Hydrobiologia* 137(1):45-54. 1986. FR 31(4)
[Dep. Zool., Fish. Limnol. Lab., Univ. Kalyani, Kalyani 741235, West Bengal, India]

86-003379 Lebail, P. Y. and A. Fostier. TECHNIQUES FOR IDENTIFYING SEX AND FOR ESTIMATING THE STAGE OF MATURITY OF LIVE FISH. *IN: G. Barnabe and R. Billard, (eds.). L' aquaculture du Bar Et des Sparides I.N.R.A. Publ., Paris.* 1984. p. 45-52. In French with English, Spanish and Italian summ.
[INRA, Lab. Physiol. Poissons, Campus de Beaulieu, F 35042 Rennes Cedex, France]

86-003380 McCormack, M. L.; R. M. Carpenter and M. Yamashita. CALIFORNIA TROUT, SALMON, AND WARMWATER FISH PRODUCTION AND COSTS, 1980-81. *Calif. Dep. Fish Game Inland Fish. Admin. Rep.* No. 84-1. 49p. 1984. FR 31(4)
[Calif. Dep. Fish Game, Fish Springs Hatchery, Big Pine, CA]

86-003381 McCormack, M. L. and R. M. Carpenter. CALIFORNIA TROUT, AND WARMWATER FISH PRODUCTION AND COSTS, 1979-80. *Calif. Dep. Fish Game Inland Fish. Admin. Rep.* No. 82-5. 50p. 1982. FR 31(4)

GENERAL FISH CULTURE (CONTINUED)

86-003382 Middendorp, A. J. and J. A. J. Verreth. THE POTENTIAL OF AND CONSTRAINTS TO FISH CULTURE IN INTEGRATED FARMING SYSTEMS IN THE LAM PAO IRRIGATION PROJECT, NORTHEAST THAILAND. *Aquaculture* 56(1):63-78. 1986. FR 31(4)
[J. A. J. Verrith: Dep. Fish Cult. Fish., Agric. Univ., P.O. Box 338, 6700 AH Wageningen, Netherlands]

86-003383 Natarajan, A. V. FISHERIES RESEARCH AND DEVELOPMENT IN THAILAND, MALAYSIA AND INDONESIA--A STUDY TOUR REPORT. (10 JULY-24 JULY 1985). *Cent. Inland Fish. Res. Inst. (Barrackpore) Bull.* No. 38. 34p. 1985. FR 31(4)
[Cent. Inland Fish Inst., Barrackpore 743101, West Bengal, India]

86-003384 Olah, J.; N. Sharangi and N. C. Datta. CITY SEWAGE FISH PONDS IN HUNGARY AND INDIA. *Aquaculture* 54(1-2):129-134. 1986. FR 31(4)
[Fish Res. Inst., H-5540 Szarvas, Hungary]

86-003385 Righetti, G. M. [PURE OXYGEN IN FISHCULTURE: WHEN, WHERE, WHY.] *Riv. It. Piscic. Ittiop.* 21(1):20-22, 25-26, 29-32. 1986. In Italian with English summ. FR 31(4)
[Via dei Pestagalli, 7-20138 Milano, Italy]

86-003386 Schmittou, H. R.; J. H. Grover; S. B. Peterson; A. R. Librero; H. B. Rabanal; A. A. Portugal and M. Adriano. DEVELOPMENT OF AQUACULTURE IN THE PHILIPPINES. *Ala. Agric. Exp. Stn. Res. Dev. Ser.* No. 32. 31p. 1985. FR 31(4)
[Ala. Agric. Exp. Stn., Auburn Univ., AL]

86-003387 Sharma, B. K. and J. Olah. INTEGRATED FISH-PIG FARMING IN INDIA AND HUNGARY. *Aquaculture* 54(1-2):135-139. 1986. FR 31(4)
[J. Olah: Fish. Res. Inst., H-5540 Szarvas, Hungary]

86-003388 Stickney, R. R., (ed.). CULTURE OF NONSALMONID FRESHWATER FISHES. *CRC Press, Inc., Boca Raton, FL.* 201p. 1986. FR 31(4)
[Sch. Fish., Univ. Wash., Seattle]

86-003389 Van Rijn, J.; S. R. Stutz; S. Diab and M. Shilo. CHEMICAL, PHYSICAL AND BIOLOGICAL PARAMETERS OF SUPERINTENSIVE CONCRETE FISH PONDS. *Bamidgeh* 38(2):35-43. 1986. FR 31(4)
[Div. Microbiol. Molec. Ecol., Fac. Life Sci., Hebrew Univ., Jerusalem, Israel]

86-003390 Yamashita, M. and R. M. Carpenter. CALIFORNIA TROUT, SALMON, AND WARMWATER FISH PRODUCTION AND COSTS, 1983-84. *Calif. Dep. Fish Game Inland Fish. Admin. Rep.* No. 85-1. 46p. 1985. FR 31(4)
[Calif. Dep. Fish Game, Sacramento]

TROUT AND SALMON CULTURE

86-003391 Champigneulle, A.; E. Boutry; P. Dewaele and C. Maufoy. REARING OF LARVAE OF LAKE LEMAN COREGONIDS IN FRANCE. PRELIMINARY DATA ON THE PRODUCTION IN SMALL PONDS, ILLUMINATED CAGES AND TANKS. *Arch. Hydrobiol.*

TROUT AND SALMON CULTURE (CONTINUED)

86-003391 CONTINUED *Beih. Ergebn. Limnol.* 22:241-264. 1986. In English with German summ. FR 31(4)
[Stn. Hydrobiol. Lacustre, INRA, BP 11 F, 75, Ave. de Corzent, 74203 Thonon, France]

86-003392 Doroshov, S. I. and F. P. Binkowski. EPILOGUE: A PERSPECTIVE ON STRUGEON CULTURE. *Dev. Environ. Biol. Fishes* 6:147-151. 1985. FR 31(4)

86-003393 Formicki, K. and A. Winnicki. INCUBATION OF DANUBE SALMON (*HUCHO HUCHO* L.) IN MAGNETIC FIELD BEYOND THE REGION OF ITS NATURAL DISTRIBUTION. *Bull. Pol. Acad. Sci. Biol. Sci.* 34(1-3):29-33. 1986. FR 31(4)

86-003394 Holm, J. C. and J. Thorsen. FLOUNDER (*PLATICHTHYS FLESUS*) IN SALMONID FRESHWATER TANK AND CAGE CULTURE. *J. Appl. Ichthyol.* 2(2):49-58. 1986. In English with French and German summ. FR 31(4)
[Dep. Fish. Biol., Univ. Bergen, P.O. Box 1839, N-5011 Nordnes, Norway]

86-003395 Jager, T. ECONOMIC ASPECTS OF A COREGONID CULTURE IN ILLUMINATED NET CAGES. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:231-239. 1986. In English with German summ. FR 31(4)
[Inst. Mar. Res., Dusternbrookerweg 20, D-2300 Kiel 1, West Germany]

86-003396 Jezierska, B.; M. Korwin-Kossakowski and G. Jowko. INFLUENCE OF STARVATION ON WHITEFISH (*COREGONUS LAVARETUS* L.) LARVAE. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):2134-2136. 1977. FR 31(4)

86-003397 Kaeriyama, M. and A. Kobayashi. STUDIES ON THE EFFECTIVE PROMOTION OF ARTIFICIAL SALMON PRODUCTION IN THE TAKACHI RIVER SYSTEM--1. UTILITY AND SURROUNDING CONDITIONS IN THE CHUM SALMON PRODUCTION OF THE UTSUNAI HOLDING POND. *Sci. Rep. Hokkaido Salmon Hatchery.* No.31. p.37-53. 1977. In Japanese with English summ. FR 31(4)

86-003398 Kaeriyama, M. STUDIES ON THE EFFECTIVE PROMOTION OF ARTIFICIAL SALMON PRODUCTION IN THE TOKACHI RIVER SYSTEM--II. ESCAPEMENT AND CATCHING OR SPAWNING PRODUCTION OF THE CHUM SALMON IN THE TOKACHI RIVER SYSTEM DURING 1976. *Sci. Rep. Hokkaido Salmon Hatchery* No.31. p.55-70. 1977. In Japanese with English summ. FR 31(4)

86-003399 Kychanov, V. M. and N. A. Volodina. ECOLOGICAL AND PHYSIOLOGICAL ASPECTS OF CASPIAN INCONNU, *STENODUS LEUCICHTHYS*, REPRODUCTION IN HATCHERIES. *Hydrobiol. J. (Engl. Transl. Gidrobiol. Zh.)* 20(1):87-90. 1985. FR 31(4)
[KaspNIRKh, USSR Minist. Fish., Astrakhan, USSR]

86-003400 Lanoiselee, B.; A. Mack; G. De Montalembert; G. Balvay and R. Billard. LIMNOLOGY APPLIED TO EXTENSIVE AQUACULTURE: MONITORING CHANGES IN PLANKTON AFTER MANURING AND DURING REARING *COREGONUS* JUVENILES. *Int. Ver. Theor. Angew. Limnol. Verh* 22(4):2571-2575. 1983. FR 31(4)

86-003401 MacConnell, E. and R. G. Piper. THE EFFECT OF WATER REUSE ON LAKE TROUT *SALVELINUS NAMAYCHUS*. *U.S. Fish Wildl. Serv. Bozeman Inf. Leafl.* No. 34. 7p. 1986. FR 31(4)

TROUT AND SALMON CULTURE (CONTINUED)

86-003401 CONTINUED
[Fish Technol. Cent., 4050 Bridger Canyon Rd., Bozeman, MT 59715]

86-003402 Mamcarz, A. and M. Nowak. REARING OF COREGONID FISHES (COREGONIDAE) IN ILLUMINATED LAKE CAGES. VI. CHARACTERISTICS OF THE SPAWNERS OF WHITEFISH (*COREGONUS LAVARETUS* L.) AND PELED (*COREGONUS PELED* GMEL.) FROM CAGE CULTURE. *Aquaculture* 55(1):51-58. 1986. FR 31(4)
[Dep. Fish., Acad. Agric. Technol., 10-957 Olsztyn, Poland]

86-003403 Marano, G.; R. Vaccarella; N. Casavola; C. Saracino; V. De Zio and A. L'Insalata. [FIRST OBSERVATION ON REARING OF *SALMO GAIRDNERI* RICH. (OSTEICHTHYS, SALMONIDAE) IN BRACKISH WATER.] *Oebalia* 11(3):895-897. 1985. In Italian with English summ. FR 31(4)
[Cent. Prov. Sper. Acquacolt., Monopoli (BA), Italy]

86-003404 Mearns, K. J. SENSITIVITY OF BROWN TROUT (*SALMO TRUTTA* L.) AND ATLANTIC SALMON (*SALMO SALAR* L.) FRY TO AMINO ACIDS AT THE START OF EXOGENOUS FEEDING. *Aquaculture* 55(3):191-200. 1986. FR 31(4)
[Dep. Biol, Univ. Oslo, P.b. 1051, Blindern, 0316 Oslo 3, Norway]

86-003405 Morrison, J. K. and R. G. Piper. EFFECT OF REUSED WATER ON BROWN TROUT. *Prog. Fish-Cult.* 48(2):139-141. 1986. FR 31(4)
[U.S.FWS, Fish Technol. Cent., 4050 Bridger Canyon Rd., Bozeman, MT 59715]

86-003406 Mukhina, L. E. COMPARATIVE CHARACTERISTICS OF MALES OF DIFFERENT GROUPS OF RAINBOW TROUT, *SALMO GAIRDNERI*, RAISED IN KUYBYSHEVSKIY PROVINCE. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(1):75-80. 1986. FR 31(4)
[Kuybyshevskaya Lab., State Sci.-Res. Inst. Lake River Fish., Tol'yatti, USSR]

86-003407 Mundie, J. H. and D. E. Mounce. APPLICATION OF STREAM ECOLOGY TO RAISING SALMON SMOLTS IN HIGH DENSITY. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):2013-2018. 1977. FR 31(4)

86-003408 Ohta, H.; Y. Shinriki and M. Honma. [SPERM MOTILITY OF MASU SALMON *ONCORHYNCHUS MASOU* IN THE ISOTONIC SOLUTION FOR EGG RINSING.] *Bull. Jpn. Soc. Sci. Fish.* 52(4):609-611. 1986. In Japanese with English summ. FR 31(4)
[Kumaishi Exp-Stn., Hokkaido Fish Hatchery, Kumaishi, Hokkaido 043-04, Japan]

86-003409 Zaugg, B. and J. Pedroli. THE REARING OF YOUNG FISH IN ILLUMINATED NET CAGES IN LAKE NEUCHATEL, SWITZERLAND. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:215-230. 1986. In English with German summ. FR 31(4)
[Inspection Peche Chasse, Chateau 16, CH-2000 Neuchatel, Switzerland]

WARMWATER CULTURE

86-003410 Abella, T. A. and R. P. Bulacso. GROWTH OF HYBRID TILAPIA AND ISRAEL *TILAPIA NILOTICA* IN PONDS. *Freshwater Aquacult. Cent. Cent. Luzon State Univ. Tech. Rep.* No. 20. p. 1-5. 1981. FR 31(4)

WARMWATER CULTURE (CONTINUED)

86-003411 Abella, T. A. and R. P. Bulacso. OBSERVATION ON THE GROWTH AND REPRODUCTIONS OF ISRAEL *TILAPIA NILOTICA* IN EARTHEN PONDS. *Freshwater Aquacult. Cent. Cent. Luzon State Univ. Tech. Rep.* No. 20. p. 6-10. 1981. FR 31(4)

86-003412 Arce, R. G. and A. V. Circa. CULTURE OF *TILAPIA NILOTICA* IN PADDY FIELDS PLANTED TO IR-48. *Freshwater Aquacult. Cent. Cent. Luzon State Univ. Tech. Rep.* No. 20. p. 52-55. 1981. FR 31(4)

86-003413 Arce, R. G. and A. V. Circa. CULTURE OF *CYPRINUS CARPIO* IN DIRECTLY SEEDED PADDY FIELDS. *Freshwater Aquacult. Cent. Cent. Luzon State Univ. Tech. Rep.* No. 20. p. 63-66. 1981. FR 31(4)

86-003414 Armstrong, M. S.; C. E. Boyd and R. T. Lovell. ENVIRONMENTAL FACTORS AFFECTING FLAVOR OF CHANNEL CATFISH FROM PRODUCTION PONDS. *Prog. Fish-Cult.* 48(2):113-119. 1986. FR 31(4)
[Dep. Fish Allied Aquacult., Ala. Agric. Exp. Stn., Auburn Univ., AL 36849]

86-003415 Augustyn, D. and M. A. Szumeic. STUDIES ON INTENSIFICATION OF CARP FARMING. 3. METEOROLOGICAL CONDITIONS, SOLAR RADIATION, AND WATER TEMPERATURE IN PONDS. *Acta Hydrobiol.* 27(2):159-172. 1986. FR 31(4)
[Polish Acad. Sci., Fish Cult. Exp. Stn., Golysz, 43-422 Chybie, Poland]

86-003416 Bassett, B. K. and J. G. Dillard. RAISING CATFISH IN FLOATING CAGES. *Mo. Coop. Ext. Serv. Bull.* Y928. 26p. 1985. FR 31(4)

86-003417 Billard, R. and J. Marcel, (eds.). AQUACULTURE OF CARP AND RELATED SPECIES. *Aquaculture* 54(1-2):v-viii+1-164. 1986. FR 31(4)
[Lab. Physiol. Poissons, INRA, Dep. Hydrobiol., F-78350 Jouy-en-Joses, France]

86-003418 Brzuska, E. and B. Malczewski. STIMULATION OF MATURATION AND OVULATION OF CARP *(CYPRINUS CARPIO* L.) OOCYTES. *Acta Hydrobiol.* 27(3):401-417. 1986. FR 31(4)
[Polish Acad. Sci., Inst. Freshwater Biol., ul. Slawkowska 17, 31-016 Krakow, Poland]

86-003419 Burke, J. S.; D. R. Bayne and H. Rea. IMPACT OF SILVER AND BIGHEAD CARPS ON PLANKTON COMMUNITIES OF CHANNEL CATFISH PONDS. *Aquaculture* 55(1):59-68. 1986. FR 31(4)
[D. R. Bayne: Dep. Fish. Allied Aquacult., Ala. Agric. Exp. Stn., Auburn Univ., AL 36849]

86-003420 Buttner, J. K. *CORBICULA* AS A BIOLOGICAL FILTER AND POLYCULTURE ORGANISM IN CATFISH REARING PONDS. *Prog. Fish-Cult.* 48(2): 136-139. 1986. FR 31(4)
[Dep. Biol. Sci., State Univ. N.Y., Brockport 14420]

86-003421 Carmichael, G. J. and J. H. Williamson. INTENSIVE PRODUCTION OF GUADALUPE BASS. *Prog. Fish-Cult.* 48(2):133-136. 1986. FR 31(4)
[U.S. FWS, Rt. 1, Box 159-D, San Marcos, TX 78666]

WARMWATER CULTURE (CONTINUED)

86-003422 Chun, S., et al. EVALUATION OF A REVOLVING PLATETYPE BIOFILTER FOR USE IN RECIRCULATING EEL CULTURE SYSTEM AND CONTROL OF FISH DISEASES. *Bull. Korean Fish. Soc.* 18(6):563-570. 1985. From Korean Sci. Abstr. 18(1):44. 1986. In Korean. FR 31(4)

86-003423 Courtois, F.; F. Takashima and R. Billard. STIMULATION OF SPERMATION FOLLOWING REPEATED INJECTION OF CARP PITUITARY HOMOGENATES IN THE CARP. *Bull. Jpn. Soc. Sci. Fish.* 52(6):995-997. 1986. FR 31(4)
[Stn. Physiol. Anim., I.N.R.A., 78350 Jouy-en-Josas, France]

86-003424 Davis, J. T. BAITFISH. *IN: R. R. Stickney, (eds.). Culture of Nonsalmonid Freshwater Fishes. CRC Press, Inc., Boca Raton, FL.* 1986. p. 149-158. FR 31(4)
[Tex. Agric. Ext. Serv., Tex. A&M Univ., College Station]

86-003425 Degani, G.; D. Levanon; G. Trieger and J. Maulem. INFLUENCE OF TWO DIFFERENT FEEDS ON FOOD CONVERSION, GROWTH AND SURVIVAL OF GLASS EELS (*ANGUILLA ANGUILLA* [L.]). *J. Appl. Ichthyol.* 2(2):59-65. 1986. In English with French and German summ. FR 31(4)
[Migal Galilee Technol. Cent., Smith Indus. Area, Kiryat Shmona, 10200 Israel]

86-003426 dela Cruz, C. R. and A. V. Circa. POLYCULTURE OF *TILAPIA NILOTICA* AND *CYPRINUS CARPIO* WITH *COLOCASIA SP.* TARO. *Freshwater Aquacult. Cent. Cent. Luzon State Univ. Tech. Rep.* No. 18. p. 24-30. 1980. FR 31(4)

86-003427 dela Cruz, C. R. and A. V. Circa. FURTHER STUDY ON THE CULTURE OF *TILAPIA NILOTICA* WITH DIRECTLY SEEDED RICE. *Freshwater Aquacult. Cent. Cent. Luzon State Univ. Tech. Rep.* No. 18 p. 31-35. 1980. FR 31(4)

86-003428 Descamps, B. [USE OF HEATED WATER FOR INCREASED GROWTH OF EEL (*ANGUILLA ANGILLA*).] *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4): 2611-2614. 1983. In French. FR 31(4)

86-003429 Dwivedi, S. N. and A. K. Reddy. FISH BREEDING IN A CONTROLLED ENVIRONMENT--CARP HATCHERY CIFE-D81. *Aquaculture* 54(1-2):27-36. 1986. FR 31(4)
[Cent. Inst. Fish. Educ., I.C.A.R., Versova, Bombay-400 061, India]

86-003430 Egwui, P. C. YIELDS OF THE AFRICAN CATFISH, *CLARIS GARIEPINUS* (BURCHELL), FROM A LOW INPUT, HOMESTEAD, CONCRETE POND. *Aquaculture* 55(2):87-91. 1986. FR 31(4)
[Minist. Agric., Fish. Div., Emugu, Nigeria]

86-003431 Giachelli, J. W.; R. E. Coats, Jr. and J. E. Waldrop. MISSISSIPPI FARM-RAISED CATFISH: JANUARY 1982 COST-OF-PRODUCTION ESTIMATES. *Miss. Agric. For. Exp. Stn. Agric. Econ. Res. Rep.* No. 134. 41p. 1982. FR 31(4)

86-003432 Godinho, H. P. and A. L. Godinho. INDUCED SPAWNING OF THE PACU, *COLOSSOMA MITREI* (BERG 1895), BY HYPOPHYSATION WITH CRUDE CARP PITUITARY EXTRACT. *Aquaculture* 55(1):69-73. 1986. FR 31(4)
[Dep. Morphol., Inst. Biol. Sci., Fed. Univ. Minas Gerais, 30000 Belo Horizonte, MG, Brazil]

WARMWATER CULTURE (CONTINUED)

86-003433 Graham, L. K.; E. J. Hamilton; T. R. Russell and C. E. Hicks. THE CULTURE OF PADDLEFISH--A REVIEW OF METHODS. *North Cent. Div. Am. Fish. Soc. Spec. Publ.* No. 7. p.78-94. 1986. Available at $9.00 ($11.00 Foreign) from Joe G. Dillard, 1110 College Ave., Columbia, MO 65201 FR 31(4)
[Mo. Dep. Conserv., Columbia 65201]

86-003434 Harada, T.; H. Kumai and O. Murata. [ARTIFICIAL HYBRIDS BETWEEN JAPANESE PARROT FISH AND SPOTTED PARROT FISH.] *Buli. Jpn. Soc. Sci. Fish.* 52(4):613-621. 1986. In Japanese with English summ. FR 31(4)
[Fish Lab., Kinki Univ., Shirahama, Wakayama 649-22, Japan]

86-003435 Hearn, M. C. REPRODUCTIVE VIABILITY OF SAUGER-WALLEYE HYBRIDS. *Prog. Fish-Cult.* 48(2):149-150. 1986. FR 31(4)
[Ky. Dep. Fish Wildl., Minor E. Clark Hatchery, Morehead 40351]

86-003436 Heidinger, R. C. and T. B. Kayes. YELLOW PERCH. *IN: R. R. Stickney, (ed.). Culture of Nonsalmonid Freshwater Fishes. CRC Press, Inc., Boca Raton, FL.* 1986. p. 103-113. FR 31(4)
[Fish. Res. Lab., South. Ill. Univ., Carbondale]

86-003437 Hokanson, D. E. F. and W. M. Koenst. REVISED ESTIMATES OF GROWTH REQUIREMENTS AND LETHAL TEMPERATURE LIMITS OF JUVENILE WALLEYES. *Prog. Fish-Cult.* 48(2):90-94. 1986. FR 31(4)
[U.S. EPA, 6201 Congdon Blvd., Duluth, MN 55804]

86-003438 Kaul, M. and K. K. Rishi. INDUCED SPAWNING OF THE INDIAN MAJOR CARP, *CIRRHINA MRIGALA* (HAM.), WITH LH-RH ANALOGUE OR PIMOZIDE. *Aquaculture* 54(1-2):45-48. 1986. FR 31(4)
[Sect. Fish Fish., Dep. Zool., Kurukshetra Univ., Kurukshetra-132 119 Haryana, India]

86-003439 Kerby, J. H. STRIPED BASS AND STRIPED BASS HYBRIDS. *IN: R. R. Stickney, (ed.). Culture of Nonsalmonid Freshwater Fishes. CRC Press, Inc., Boca Raton, FL.* 1986. p. 127-147. FR 31(4)
[N.C. Coop. Fish. Res. Unit, N.C. State Univ., Raleigh]

86-003440 Khyazev, I. V. and N. S. Knyazeva. THE OXYGEN BALANCE OF FRY PONDS AT VARIOUS STAGES OF EXPLOITATION. *Hydrobiol. J. (Engl. Transl. Gidrobiol. Zh.)* 21(2):59-64. 1985. FR 31(4)
[Siberian Inst. Fish. Sci., Tyuman', USSR]

86-003441 Kouril, J.; T. Barth; J. Hamackova; M. Flegel and I. Prikryl. [THE EFFECT OF THE SITE OF APPLICATION OF HYPOPHYSIS AND THE LH-RH ANALOG IN INDUCED SPAWNING OF FEMALE TENCH (*TINCA TINCA* L.).] *Bul. Vurh Vodnany* 22(2):30-39. 1986. In Czech with English summ. FR 31(4)
[Vyzkumny ustav rybar. Hydrobiol., 389 25 Vodnany, Czechoslovakia]

86-003442 Kouril, J.; T. Barth; J. Hamackova and M. Flegel. INDUCED OVULATION IN TENCH (*TINCA TINCA* L.) BY VARIOUS LH-RH SYNTHETIC ANALOGUES: EFFECT OF SITE OF ADMINSTRATION AND TEMPERATURE. *Aquaculture* 54(1-2): 37-44. 1986. FR 31(3)
[Fish. Res. Inst., 389 25 Vodnany, Czechoslovakia]

WARMWATER CULTURE (CONTINUED)

86-003443 Kowtal, G. V.; W. H. Clark, Jr. and G. N. Cherr. ELIMINATION OF ADHESIVENESS IN EGGS FROM THE WHITE STURGEON, *ACIPENSER TRANSMONTANUS:* CHEMICAL TREATMENT OF FERTILEZED EGGS. *Aquaculture* 55(2):139-143. 1986. FR 31(4)
[G. N. Cherr: Bodega Mar. Lab., Univ. Calif., Davis 95616]

86-003444 Krise, W. F. and J. W. Meade. REVIEW OF THE INTENSIVE CULTURE OF WALLEYE FRY. *Prog. Fish-Cult.* 48(2):81-89. 1986. FR 31(4)
[U.S. FWS, RD 4, Box 63, Wellsboro, PA 16901]

86-003445 Krise, W. F.; L. Bulkowski-Cummings; A. D. Shellman; K. A. Kraus and R. W. Gould. INCREASED WALLEYE EGG HATCH AND LARVAL SURVIVAL AFTER PROTEASE TREATMENT OF EGGS. *Prog. Fish-Cult.* 48(2):95-100. 1986. FR 31(4)
[U.S.FWS, RD 4, Box 63, Wellsboro, PA 16901]

86-003446 Krupka, I. [ARTIFICIAL REPRODUCTION AND BREEDING OF BARBEL FINGERLINGS (*BARBUS BARBUS* (LINNAEUS, 1758)).] *Prace Lab. Ryb. Hydrobiol.* 5:173-197. 1985. In Czech with English summ. FR 31(4)
[Lab. Ryb. Hydrobiol., Drienova 3, 826 24 Bratislava, Czechoslovakia]

86-003447 Kubu, F. and V. Janecek. [THE COSTS OF FERTILIZERS AND FEEDS USED IN CARP POLYCULTURE.] *Bul. Vurh Vodnany* 22(2):14-20. 1986. In Czech with English summ. FR 31(4)
[Vyzkumny ustav rybar. Hydrobiol., 389 25 Vodnany, Czechoslovakia]

86-003448 Lanoiselee, B.; R. Billard and G. De Montalembert. ORGANIC FERITLIZATION OF NURSERY PONDS FOR PIKE (*ESOX LUCIUS*). *Aquaculture* 54(1-2):141-147. 1986. FR 31(4)
[CEMAGREF-ALA, Av. Val. de Montferrard, BP5095, F. 34033 Montpellier-Cedex, France]

86-003449 Legendre, M. SEASONAL CHANGES IN SEXUAL MATURITY AND FECUNDITY, AND HCG-INDUCED BREEDING OF THE CATFISH, *HETEROBRANCHUS LONGIFILIS* VAL. (CLARIIDAE), REARED IN EBRIE LAGOON (IVORY COAST). *Aquaculture* 55(3): 201-213. 1986. FR 31(4)
[Cent. Rech. Oceanogr., B.P. V 18 Abidjan, Ivory Coast]

86-003450 Lovell, R. T.; I. Y. Lelana; C. E. Boyd and M. S. Armstrong. GEOSMIN AND MUSTY-MUDDY FLAVORS IN POND-RAISED CHANNEL CATFISH. *Trans. Am. Fish. Soc.* 115(3):485-489. 1986. FR 31(4)
[Dep. Fish. Allied Aquacult., Auburn Univ., AL 36849]

86-003451 Markiewicz, F.; J. Stefan and A. Pilarczyk. STUDIES ON INTENSIFICATION OF CARP FARMING. 8. STATE OF HEALTH AND HAEMATOLOGICAL INDICES OF CARP IN EXPERIMENTAL PONDS. *Acta Hydrobiol.* 27(2):219-228. 1986. FR 31(4)
[POlish Acad. Sci., Fish Cult. Exp. Stn., Golysz, 43-422 Chybie, Poland]

86-003452 McGeachin, R. B. CARP AND BUFFALO. *IN: R. R. Stickney, (ed.). Culture of Nonsalmonid Freshwater Fishes. CRC Press, Inc., Boca Raton, FL.* 1986. p. 43-55. FR 31(4)
[Caribbean Mar. Res. Cent., Riviera Beach, FL]

WARMWATER CULTURE (CONTINUED)

86-003453 Melo, F. R.; A. C. Sobrinho; A. Bezerra da Silva and J. W. Bezerra e Silva. [RESULTS OF AN EXPERIMENT IN THE CULTIVATION OF HYBRID TILAPIA (*OREOCHROMIS HORNORUM* TREW. X *O. NILOTICUS* L., 1766) WITH SWINE.] *Bol. Tec.* 43(1):25-46. 1985. In Portuguese with English summ. FR 31(4)
[Med. Vet. Cent. Pesq. Ictiol., "Rodolpho von Ihering", 60,000, Fortalega, Ceara, Brazil]

86-003454 Miller, G. E. AN EVALUATION OF A CONFINEMENT CATFISH PRODUCTION FACILITY INCORPORATING RECIRCULATING CULTURE SYSTEMS WITH FISH-BARN: A SIMULATION FOR AQUACULTURE ANALYSIS. *Ph.D. dissertation, Purdue Univ.* 243p. 1985. From Diss. Abstr. Int. B Sci. Eng. 47(1):22-23. 1986. FR 31(4)

86-003455 Nagarajaiah, C. S. and T. R. C. Gupta. OBSERVATIONS ON THE SEASONAL FLUCTUATIONS OF PLANKTON IN BRACKISHWATER PONDS OF NETHRAVATI ESTUARY, MANGALORE. II. ZOOPLANKTON. *Mysore J. Agric. Sci.* 19(1):28-32. 1985. FR 31(4)
[Coll. Fish., Mangalore 575002, India]

86-003456 Ngamvongchon, S.; K. Sakai and J. Takashima. EFFECTS OF LHRH ANALOGUE ON INDUCED OVULATION IN *CLARIAS MACROCEPHALUS. Bull. Jpn. Soc. Sci. Fish.* 52(6):1105. 1986. FR 31(4,
[Natl. Inland Fish. Inst., Dep. Fish., Bangkok, Thailand]

86-003457 Nickum, J. G. WALLEYE. *IN: R. R. Stickney, (ed.). Culture of Nonsalmonid Freshwater Fishes. CRC Press, Inc., Boca Raton, FL.* 1986. p. 115-126. FR 31(4)
[U.S.FWS, Washington, DC 20240]

86-003458 Payne, A. I. USE OF SEWAGE WASTE IN WARMWATER AQUACULTURE. *IN: Refuse of Sewage Effluents. Int. Symp. Reuse Sewage Efflurents. Am Soc. Civ. Eng., New York.* p. 157-172. 1985. FR 31(4)
[Coventry Lancaster Polytech., Conventry CVI 5FB, West Midlands, England]

86-003459 Pilarczyk, A. STUDIES ON INTENSIFICATION OF CARP FARMING. 9. STATE OF HEALTH AND HAEMATOLOGICAL INDICES OF CARP IN PRODUCTIVE PONDS. *Acta Hydrobiol.* 27(2):229-239. 1986. FR 31(4)
[Polish Acad. Sci., Fish Cult. Exp. Stn., Golysz, 43-422 Chybie, Poland]

86-003460 Prazakova, M. INFLUENCE OF ORGANIC POLLUTION ON PRODUCTIVITY OF A FISH POND. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):1890. 1977. Abstract only. FR 31(4)

86-003461 Razani, H. and I. Hanyu. ANNUAL REPRODUCTIVE CYCLE OF 2-3 YEARS OLD FEMALE GOLDFISH AND ITS ARTIFICIAL MODIFICATION BY MANIPULATIONS OF WATER TEMPERATURE AND PHOTOPERIOD. *Bull. Jpn. Soc. Sci. Fish.* 52(6): 965-969. 1986. FR 31(4)
[Dep. Fish., Fac. Agric., Univ. Tokyo, Bunkyo, Tokyo 113, Japan]

86-003462 Recometa, R. D. and R. C. dela Cruz. GONADAL MATURATION/BREEDING OF DIFFERENT SPECIES OF CARPS. *Freshwater Aquacult. Cent. Cent. Luzon State Univ. Tech. Rep.* No. 18. p. 10-12. 1980. FR 31(4)

86-003463 Recometa, R. D. and R. C. dela Cruz. SEED PRODUCTION OF *TILAPIA NILOTICA* USING TWO SEX RATIOS WITH SUPPLEMENTAL FEEDING. *Freshwater Aquacult. Cent. Cent. Luzon State Univ. Tech. Rep.* No. 18. p. 1-4. 1980. FR 31(4)

WARMWATER CULTURE (CONTINUED)

86-003464 Riera, P. M. C.; J. W. Bezerra e Silva; M. I. da Silva Nobre and J. O. Farias. [RESULTS OF POLYCULTURE OF MIRROR CARP, *CYPRINUS CARPIO* L., 1758 VR. *SPECULARIS*, AND CONGO TILAPIA, *TILAPIA RENDALLI* BOULENGER, 1912, AT THE RODOLPHO VON IHERING CENTER OF ICHTHIOLOGY (PENTECOSTE, CEARA, BRAZIL).] *Bol. Tec.* 43(1):83-108. 1985. In Portuguese with English summ. FR 31(4)
[Eng. de Pesca, La Paz, La Paz, Honduras]

86-003465 Sands, D. D. FLORIDA FISH FARMS: A FEW THOUGHTS FROM ABROAD. *Trop. Fish Hobbyist* 34(12):55,58-63. 1986. FR 31(4)

86-003466 Semmens, K. J. and W. L. Shelton. OPPORTUNITIES IN PADDLEFISH AQUACULTURE. *North Cent. Div. Am. Fish. Soc. Spec. Publ.* No.7. p.106-113. 1986. Available at $9.00 ($11.00 Foreign) from Joe G. Dillard, 1110 College Ave., Columbia, MO 65201. FR 31(4)
[Dep. Fish. Allied Aquacult., Auburn Univ., Auburn, AL 36849]

86-003467 Simco, B. A.; J. H. Williamson; G. J. Carmichael and J. R. Tomasso. CENTRARCHIDS. *IN: R. R. Stickney, (ed.). Culture of Nonsalmonid Freshwater Fishes. CRC Press, Inc., Boca Raton, FL.* 1986. p. 73-89. FR 31(4)
[Dep. Biol., Memphis State Univ., Memphis, TN]

86-003468 Stickney, R. R. TILAPIA. *IN: R. R. Stickney, (ed.). Culture of Nonsalmoned Freshwater Fishes. CRC Press, Inc., Boca Raton, FL.* 1986. p. 57-72. FR 31(4)
[Sch. Fish., Univ. Wash., Seattle]

86-003469 Stickney, R. R. CHANNEL CATFISH. *IN: R. R. Stickney, (ed.). Culture of Nonsalmonid Freshwater Fishes. CRC Pres, Inc., Boca Raton, FL.* 1986. p. 19-42. FR 31(4)
[Sch. Fish., Univ. Wash., Seattle]

86-003470 Szarowska, M. STUDIES ON INTENSIFICATION OF CARP FARMING. 6. NUMBER AND BIOMASS OF THE MAIN COMPONENTS OF BENTHOS. *Acta Hydrobiol.* 27(2):197-203. 1986. FR 31(4)
[Polish Acad. Sci., Fish Cult. Exp. Stn., Golysz, 43-422 Chybie, Poland]

86-003471 Szumiec, J. STUDIES ON INTENSIFICATION OF CARP FARMING. 10. PRODUCTION RESULTS, ENVIRONMENT CHANGES, AND FINAL CONSIDERATIONS. *Acta Hydrobiol.* 27(2):241-277. 1986. FR 31(4)
[Polish Acad. Sci., Fish Cult. Exp. Stn., Golysz, 43-422 Chybie, Poland]

86-003472 Szumiec, J. STUDIES ON INTENSIFICATION OF CARP FARMING. 1. INTRODUCTION AND GENERAL PROGRAMME. *Acta Hydrobiol.* 27(2):131-145. 1986. FR 31(4)
[Polish Acad. Sci., Fish Cult. Exp. Stn., Golysz, 43-422 Chybie, Poland]

86-003473 Szumiec, M. A. and J. Szumiec. STUDIES ON INTESIFICATION OF CARP FARMING. 2. EFFECT OF TEMPERATURE ON CARP GROWTH. *Acta Hydrobiol.* 27(2):147-158. 1986. FR 31(4)
[Polish Acad. Sci., Fish Cult. Exp. Stn., Golysz, 43-422 Chybie, Poland]

WARMWATER CULTURE (CONTINUED)

86-003474 Tarnchalanukit, W. EXPERIMENTAL HYBRIDIZATION BETWEEN CATFISHES OF THE FAMILIES CLARIIDAE AND PANGASIIDAE IN THAILAND. *Environ. Biol. Fishes* 16(4):317-320. 1986. FR 31(4)
[Dep. Aquacult., Fac. Fish., Kasetsart Univ., Bangkhen, Bangkok 10900, Thailand]

86-003475 Tripathi, S. D. and D. N. Mishra. SYNERGISTIC APPROACH IN CARP POLYCULTURE WITH GRASS CARP AS A MAJOR COMPONENT. *Aquaculture* 54(1-2): 157-160. 1986. FR 31(4)
[Freshwater Aquacult. Res. Training Cent., P.O. Kausalyagang 751002, Orissa, India]

86-003476 Urbaniec-Brozda, W. STUDIES ON INTENSIFICATION OF CARP FARMING. 5. QUANTITY AND BIOMASS OF ZOOPLANKTON. *Acta Hydrobiol.* 27(2):185-196. 1986. FR 31(4)
[Polish Acad. Sci., Fish Cult. Exp. Stn., Golysz, 43-422 Chybie, Poland]

86-003477 Urbaniec-Brozda, W. STUDIES ON INTENSIFICATION OF CARP FARMING. 4. CHANGES IN ABUNDANCE AND DIVERSITY OF PHYTOPLANKTON. *Acta Hydrobiol.* 27(2):173-184. 1986. FR 31(4)
[Polish Acad. Sci., Fish Cult. Exp. Stn., Golysz, 43-422 Chybie, Poland]

86-003478 Vazquez, J.; T. Sanchez and I. Bencomo. [EFFECT OF TWO FERTILIZATION SYSTEMS ON GROWTH OF FINGERLING TILAPIA, *OREOCHROMIS AUREUS* (STEINDACHNER).] *Rev. Cubana Invest. Pesq.* 7(1):20-32. 1982. In Spanish with English summ. FR 31(4)
[Empresa Nac. Acuicult., Havana, Cuba]

86-003479 Vorob'yev, V. I. and V. V. Zalepukhin. BIOCHEMISTRY OF VARIOUS QUALITY SPAWN OF *ARISTICHTHYS NOBILIS* IN HATCHERIES. *Hydrobiol. J. (Engl. Transl. Gidrobiol. Zh.)* 20(1):91-96. 1985. FR 31(4)

86-003480 Vranovsky, M. [TO THE KNOWLEDGE OF THE ZOOPLANKTON OF CARP-PONDS IN ZAHORIE (WESTERN SLOVAKIA).] *Prace Lab. Ryb. Hydrobiol.* 5:159-171. In Czech with English summ. FR 31(4)
[Lab. Ryb. Hydrobiol., Drienova 3, 826 24 Bratislava, Czechoslovakia]

86-003481 Westers, H. NORTHERN PIKE AND MUSKELLUNGE. *IN: R. R. Stickney, (ed.). Culture of Nonsalmonid Freshwater Fishes. CRC Press, Inc., Boca Raton, FL.* 1986. p. 91-101. FR 31(4)
[Mich. Dep. Nat. Resour., Hatchery Operations, Fish. Dep., Lansing]

MARICULTURE

86-003482 Arias, A. M.; P. Drade and R. B. Rodriguez. REARING PONDS ("ESTEROS") IN THE SAN FERNANDO SALT PONDS IN CADIX, SPAIN, AND EXTENSIVE REARING OF SEA FISH. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris* 1984. p. 447-463. In French with English, Spanish and Italian summ. FR 31(4)
[Inst. Invest. Pesq. Cadiz, Puerto Pesquero s/n, Cadiz, Spain]

86-003483 Barbato, F. [A STUDY TOUR AROUND THE SEA RESTOCKING HATCHERIES IN THE SETO INLAND SEA, JAPAN.] *Riv. Ital. Piscic. Ittiop.* 20(4):127-130. 1985. In Italian with English summ. FR 31(4)
[Biol., Via Monti di Creta, 47-00167 Rome, Italy]

MARICULTURE (CONTINUED)

86-003484 Barnabe, G. and R. Billard, (eds.). L' AQUACULTURE DU BAR ET DES SPARIDES. *I.N.R.A. Publ., Paris* xxi+542p. 1985. In French with English, Italian, and Spanish summ. A collecton of papers.--RS. FR 31(4)

86-003485 Barnabe, G. and J. Paris. ADVANCED AND NORMAL LAYING IN THE SEA BASS (*DICENTRARCHUS LABRAX* L.) AT THE STATION OF MARINE AND LAGOONAL BIOLOGY AT SETE. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 63-72. In French with English, Spanish and Italian summ. FR 31(4)
[Stn. Biol. Mar. Lagunaire, quai de la Daurade, F 34200 Sete, France]

86-003486 Barnabe, G. COLLECTING PLANKTON FOR MASS REARING OF SEA FISH. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 185-207. In French with English, Spanish and Italian summ. FR 31(4)
[Univ. Sci. Tech. Languedoc, Stn. Biol. Mar. Lagunaire, quai de la Daurade, F 34200 Sete, France]

86-003487 Bedier, E.; B. Chatain; C. Coves and M. Weppe. CONTRIBUTION TO INTENSIVE PRODUCTION OF THE JUVENILE SEA BREAM (*SPARUS AURATUS*). *IN: B. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 223-236. In French with English, Spanish and Italian summ. FR 31(4)
[France Aquaculture, Stn. Deva-Sud du CNEXO, F 34250 Palavas les Flvts, France.

86-003488 Billard, R. GAMETE STORAGE AND ARTIFICIAL INSEMINATION OF SEA BASS AND SEA BREAM. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 95-116. In French with English, Spanish and Italian summ. FR 31(4)
[INRA, Lab. Physiol. Poissons, Campus de Beaulieu, F 35042 Rennes Cedex, France]

86-003489 Brunel, G. THE TECHNOLOGY OF RECYCLING SEA WATER IN HATCHERIES. *IN: B. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris*, 1984. p. 277-285. In French with English, Spanish and Italian summ. FR 31(4)
[Sepia International, Ecloser. de Martigues-Ponteau, Cent. E.D.F., F 13117 Lavera, France]

86-003490 Brusle, J. and C. Roblin. SEXUALITY OF SEA BASS IN CONTROLLED FISH FARM CONDITIONS. *IN: G. Barnabe and R. Billard, (eds.). L' aquaculture de Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 33-43. In French with English, Spanish and Italian summ. FR 31(4)
[Lab. Biol. Mar., Univ. Perpignan, Ave. Villeneuve, F-66025 Perpignan Cedex, France]

86-003491 Carpentier, P. EXTENSIVE CULTURE OF SEA BASS IN SALT MARSHES. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 419-422. In French with English, Spanish and Italian summ. FR 31(4)
[A.M.F. "La Pauline", F 17320 Marennes, France]

86-003492 Caubere, J. L. LARGE-VOLUME REARING OF SEA BASS AT LOW OR MEDIUM DENSITY. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture de Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 305-310. In French with English, Spanish and Italian summ. FR 31(4)
[G.A.E.C. Les Poissons du Soleil, F 34540 Balaruc-les-Bains, France]

MARICULTURE (CONTINUED)

86-003493 Cejpa, A.; P. Divanach and A. Campillo. THE FISHING AND CULTURE OF SEA BASS AND SEVERAL SPARIDS. PROBLEMS AND PERSPECTIVES. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 513-527. In French with English, Spanish and Italian summ. FR 31(4)
[I.S.T.P.M.,1, ancienae rute d'Agde, F 34200 Sete, France]

86-003494 Chauvet, C. IMPROVING NATURAL PRODUCTION IN TUNIS LAGOON BY CONTROLLING FISH MIGRATION AND ADJUSTING FISHING TECHNIQUES. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R. A. Publ., Paris.* 1984. p. 495-511. In French with English, Spanish and Italian summ. FR 31(4)
[Lab. Biol. Mar., Univ. Perpignan, Ave. Villeneuve, F 66025 Perpignan Cedex, France]

86-003495 Conte, H. REARING IN TANKS IN THE GROUND ON A PROFESSIONAL FISH FARM. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar dt des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 373-380. In French with English, Spanish and Italian summ. FR 31(4)
[Mediterranei Pisciculture, Fontaine aux Dames, F 66600 Salses, France]

86-003496 Conte, M. RECYCLING IN THE HATCHERY AND USE OF COLLECTED PLANCKTON; PROFESSIONAL EXPERIENCE. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 287-290. In French with English, Spanish and Italian summ. FR 31(4)
[Meditenance-Pescirculture, Fontaine-aux-Dames, F 66600 Salser, France]

86-003497 Cook, J. M.; G. Cristiani and J. P. Lamare. TECHNOLOGY OF REARING CAGES (FLOATING AND IMMERSED) IN THE SEA. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 395-402. In French with English, Spanish and Italian summ. FR 31(4)
[Cellule Reg. Mer Aquacult. Provence-alps-cote d'Asur, R.N. 7, Palette, F 13100 Aux en Provence, France]

86-003498 Devauchelle, N. INCUBATION OF THE EGGS OF SEA BASS (*DICENTRARCHUS LABRAX*) AND SEA BREAM (*SPARUS AURATUS*). *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 117-124. In French with English, Spanish and Italian summ. FR 31(4)
[CNEXO, Cent. Oceanol. Bretagne, BP 337, F-29273 Brest Cedex, France]

86-003499 Devauchelle, N. SHIFTING THE REPRODUCTION OF THE SEA BASS (*DICENTRARCHUS LABRAX*) AND THE SEA BREAM (*SPARUS AURATUS*). *IN: G. Barnabe and R. Billard, (eds.). L' aquaculture du Bar et des Sparides. U.N.R.A. Publ., Paris.* 1984. p. 53-61. In French with English, Spanish, and Italian summ. FR 31(4)
[CNEXO, Cent. Oceanol. Bretagne, BP 337, F 29273, Brest Cedex, France]

86-003500 Divanach, P. and M. Kentouri. POSSIBILITIES OF PRODUCING JUVENILES OF SEA FISH IN LANGUEDOC BY EXTENSIVE REARING. EFFECT OF SEASON AND CLIMATIC CONDITIONS. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Spanides. I.N.R.A. Publ., Paris.* 1984. p. 175-184. In French with English, Spanish and Italian summ. FR 31(4)
[Stn. Biol. Mar. Lagunaire, quai de la Dourade, F 34200 Sete, France]

MARICULTURE (CONTINUED)

86-003501 Divanach, P. and M. Kentouri. A STUDY OF THE POSSIBILITIES OF OBTAINING VIABLE GAMETES FROM FISH SOLD BY AUCTION AT SETE, FRANCE. *IN: G. Baranbe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 81-93. In French with English, Spanish and Italian summ. FR 31(4)
[Stn. Biol. Mar. Lagunaire, F 34200 Sete, France]

86-003502 Dosdat, A. PREGROWTH AND OXYGEN CONSUMPTION OF SEA BASS AND SEA BREAM IN INTENSIVE AQUACULTURE. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 351-359. In French with English, Spanish and Italian summ. FR 31(4)
[France Aquaculture, Stn. de Pinai, F 20240 Ghisonaccia, France]

86-003503 Dosdat, A. PRODUCTION PLAN FOR A SEA BASS FARM. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 361-372. In French with English, Spanish and Italian summ. FR 31(4)
[France Aquaculture, Stn. de Pinia, F 20240 Ghisonaccia, France]

86-003504 Giovanardi, O. [THE FUTURE OF TUNA CULTURE.] *Riv. It. Piscic. Ittiop.* 20(3):81-86. 1985. In Italian with English summ. FR 31(4)
[Lab. Biol. Mar. Pesco Fano, Italy]

86-003505 Gomez Gaspar, A. [INDUCED SPAWNING AND EMBRYONIC AND LARVAL DEVELOPMENT OF *CHAETODIPTERUS FABER* (BROUSSONET)(PISCES, EPHIPPIDAE) ON MARGARITA ISLAND, VENEZUELA.] *An. Inst. Invest. Mar. Punta de Betin* 14:85-104. 1984. In Spanish with English summ. FR 31(4)
[Inst. Oceanogr., Univ. Oriente, Apt. 456, Cumana, Venezuela]

86-003506 Hunter, J. R. SYNOPSIS OF CULTURE METHODS FOR MARINE FISH LARVAE. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 24-27. 1984. FR 31(4)

86-003507 Lee, C. and G. M. Weber. EFFECTS OF SALINITY AND PHOTOPERIOD ON 17α-METHYLTESTOSTERONE-INDUCED SPERMATOGENESIS IN THE GREY MULLET, *MUGIL CEPHALUS* L. *Aquaculture* 56(1):53-62. 1986. FR 31(4)
[Oceanic Inst., Makapuu Point, Waimanalo, HI 96795]

86-003508 Lucet, P.; G. Balma and J. Bonfils. GROWTH OF SEA BASS IN FISH CAGES IN THAU POND (HERAULT, FRANCE). *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 381-394. In French with English, Spanish and Italian summ. FR 31(4)
[CEPRALMAR, 20, rue de la Republique, F 34000 Montpellier, France]

86-003509 Lucet, P.; S. Brouillet and E. Bedier. PREGROWTH OF SEA BASS FRY IN INTENSIVE CONDITIONS. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 311-322. In French with English, Spanish and Italian summ. FR 31(4)
[CEPRALMAR, 20, rue de la Republique, F 34000 Montpellier, France]

86-003510 Marangos, C.; H. Yagi and H. J. Ceccaldi. [THE ROLE OF TEMPERATURE AND SALINITY ON HATCHING RATE AND MORPHOGENESIS DURING EMPRYO DEVELOPMENT IN *DICENTRARCHUS LABRAX* (LINNAEUS, 1758) (PISCES, TELEOSTEI,

MARICULTURE (CONTINUED)

86-003510 CONTINUED SERRANIDAE).] *Aquaculture* 54(4):287-300. 1986. In French with English summ. FR 31(4)
[Stn. Mar. d'Endoume, 13007 Marseille, France]

86-003511 Mazzola, A. [TECHNIQUES FOR REARING LARVAL *SPARUS AURATA* L.] *Oebalia* 11(2):713-727. 1985. In Italian with English summ. FR 31(4)
[Ist. Zool., Univ., Via Archirafi, 18, 90128 Palermo, Italy]

86-003512 Pionetti, J. M. ENVIRONMENTAL REQUIREMENTS AND PHYSIOLOGICAL AND BIOCHEMICAL INDICATORS IN THE AQUACULTURE OF SEA FISH. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 127-137. In French with English, Spanish and Italian summ. FR 31(4)
[Lab. Biochem.-Physiol., Stn. Biol. Mar. Lagunaire, quai de la Daurade, F-34200 Sete, France]

86-003513 Querellou, J. MODELS OF PRODUCTION IN INTENSIVE PISCICULTURE: APPLICATION TO THE CULTURE OF SEA BASS (*DICENTRARCHUS LABRAX*). *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R. A. Publ., Paris.* 1984. p. 483-494. In French with English, Spanish and Italian summ. FR 31(4)
[Cent. Natl. Explor. Oceans, Base Oceanol. Mediterranee, Brezaillan, B.P. 2, F 83500 La Seyne sur Mer, France]

86-003514 Ramos, J. LUTEINIZING HORMONE-RELEASINC HORMONE ANALOGUE (LH-RHa) INDUCES PRECOCIOUS OVULATION IN COMMON SOLE (*SOLEA SOLEA* L.). *Aquaculture* 54(3):185-190. 1986. FR 31(4)
[Inst. Aquicult. Torre de la Sal, Ribera de Cabanes, Castellon, Spain]

86-003515 Ravaanan, G. REARING OF SEA BASS AND SEA BREAM IN VALLICULTURE. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 435-446. In French with English, Spanish and Italian summ. FR 31(4)
[Via Euganea, 29, Podova, Italy]

86-003516 Rene, F. REARING TRIALS IN SEA BASS (*DICENTRARCHUS LABRAX*), SEA BREAM (*SPARUS AURATUS*) AND SAR (*DIPLODUS SARGUS*) AT MARTINIQUE. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 403-418. In French with English, Spanish and Italian summ. FR 31(4)
[A.D.A.M., B.P. 1020, baie du Robert, F 97231 Robert, Martinique]

86-003517 Ryu, B. S. et al. [THE REARING AND DISEASE CONTROL OF SEA BASS *(LATEOLATRAX JAPONICUS)* IN NET CAGES.] *Bull. Fish. Res. Dev. Agency* No. 35. p. 61-71. 1985. From Kor. Sci. Abstr. 18(2):42. 1986. In Korean with English summ. FR 31(4)

86-003518 Salvatori, R.; M. Lenzi; F. Fommei and M. Angelini. [EXPERIENCES OF ARTIFICIAL REPRODUCTION AND LARVAL REARING OF SOLE (*SOLEA SOLEA* FOWLER).] *Oebalia* 11(2):737-744. 1985. In Italian with English summ. FR 31(4)
[C.G.P.C.O., Lab. Ittiogen. S. Liberata, Italy]

86-003519 Salvatori, R.; M. Angelini; M. Lenzi; F. Fommei and A. Ponticelli. [LARVAL REARINGS *DICENTRARCHUS LABRAX* (L.) BY USING HYPOTHERMAL SALT-PITS. THREE YEARS OF ESPERIENCE.] *Oebalia* 11(2):729-736.

MARICULTURE (CONTINUED)

86-003519 CONTINUED 1985. In Italian with English summ. FR 31(4)
[C.G.P.C.O., Lab. Ittiogen. S. Liberata, Italy]

86-003520 Societa Itticoltura Meridionale. REARING OF LARVAE OF THE SEA BASS (*DICENTRARCHUS LABRAX*) AT ISOLA LONGA (MARSALA) IN 1982. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 297-303. In French with English, Spanish and Italian summ. FR 31(4)
[Via Liberta 103, Palermo, Italy]

86-003521 Williot, P. PRELIMINARY RESULTS ON PREGROWTH OF SEA BASS (*DICENTRARCHUS LABRAX*) WITHOUT SUPPLEMENTARY FEEDING. *IN: G. Baranbe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ. Paris.* 1984. p. 323-333. In French with English, Spanish and Italian summ. FR 31(4)
[CEMAGREF, Div. Amenage. Littoraux Aquacult., B.P. 3, F 33610 Cestas, France]

86-003522 Williot, P. TRIAL TO IMPROVE WINTER SURVIVAL RATE OF SEA BASS (*DICENTRARCHUS LABRAX* L.), IN LARGE EARTH TANKS. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris. Paris.* 1984. p. 423-434. In French with English, Spanish and Italian summ. FR 31(4)
[CEMAGREF, B. P. 3, F 33610 Cestas, France]

86-003523 Zohar, Y.; R. Billard and C. Weil. REPRODUCTION OF THE SEA BREAM AND THE SEA BASS: SEXUAL CYCLE AND INDUCTION OF SPAWNING. *IN: G. Barnabe and R. Billard, (eds.). L' aquaculture du Bar et des Sparides. I.N. R.A. Publ., Paris.* 1984. p. 3-24. In French with English, Spanish and Italian summ. FR 31(4)
[INRA, Lab. Physiol. Poissons, Campus de Beaulieu, F 35042 Rennes Cedex France]

FEEDS, FEEDING, AND NUTRITION

86-003524 Adams, M. A. and P. B. Johnsen. A SOLID MATRIX BIOASSAY FOR DETERMINING CHEMICAL FEEDING STIMULANTS. *Prog. Fish-Cult.* 48(2):147-149. 1986. FR 31(4)
[Monell Chem. Senses Cent., Univ. Pa., 3500 Market St., Philadelphia 19104]

86-003525 Alliot, E. and A. Pastoureaud. COVERING THE FOOD REQUIREMENTS OF SEA BASS AND SEA BREAM. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 337-349. In French with English, Spanish and Italian summ. FR 31(4)
[Stn. Mar.d'Endoume, rue Batterie-des-Lenes, F 13007 Marseille, France]

86-003526 Amerio, M.; G. Carini and M. Regleri. [OILED AND NOT OILED DRY FEEDS IN TROUT FEEDING. AN EXPERIMENTAL CONTRIBUTE.] *Riv. Ital. Piscic. Ittiop.* 21(2):65-66,69. 1986. In Italian with English summ. FR 31(4)
[Ist. Sci. Nutro., Fac. Agraria, U.C.S.C. Piacenza, Italy]

FEEDS, FEEDING, AND NUTRITION (CONTINUED)

86-003527 Anthouard, M.; C. Desportes; M. Kentouri; P. Divanach and J. Paris. [A STUDY OF BEHAVIOURAL PATTERNS OF *DICENTRARCHUS LABRAX, DIPLODUS SARGUS, PUNTAZZO PUNTAZZO, SPARUS AURATA,* AND *LITHOGNATHUS MORMYRUS* (TELEOSTEI FISHES), IN A SELF-FEEDING SITUATION.] *Biol. Behav.* 11(2):97-110. 1986. In French with English summ. FR 31(4)
[Lab. Psychophysiol., Univ. Louis Pasteur, 7, rue de l'Universite, F 67000, Strasbourg, France]

86-003528 Arce, R. G. and A. V. Circa. EFFECT OF THREE FEED FORMULATIONS ON THE PRODUCTION OF *TILAPIA NILOTICA* IN PADDY FIELDS PLANTED TO IR-54. *Freshwater Aquacult. Cent. Cent. Luzon State Univ. Tech. Rep.* No. 20. p. 46-51. 1981. FR 31(4)

86-003529 Asgard, T. and E. Austreng. BLOOD, ENSILED OR FROZEN, AS FEED FOR SALMONIDS. *Aquaculture* 55(4):263-284. 1986. FR 31(4)
[Agric. Univ. Norway, Dep. Poultry Fur Anim. Sci., N-1432 As-NLH, Norway]

86-003530 Association pour la Rechereche et le Developpement de I' Aquaculture a Meze. PREGROWTH OF SEA BASS FRY WITH ZOOPLANCKTON COLLECTED AT THE LAGOONAL STATION OF MEZE. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 291-296. In French with English, Spanish and Italian summ. FR 31(4)
[Assoc. Rech. Dev. Aquacult., BP47, F 34140 Meze, France]

86-003531 Beamish, F. W. H. and T. E. Medland. PROTEIN SPARING EFFECTS IN LARGE RAINBOW TROUT, *SALMO GAIRDNERI. Aquaculture* 55(1):35-42. 1986. FR 31(4)
[Dep. Zool., Univ. Guelph, Guelph, ON N1G 2W1, Canada]

86-003532 Bell, J. G. and C. B. Cowey. ROLES OF VITAMIN E AND SELENIUM IN THE PREVENTION OF PATHOLOGIES RELATED TO FATTY ACID OXIDATION IN SALMONIDS. *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 333-347. FR 31(4)
[N.E.R.C. Inst. Mar. Biochem., St. Fittick's Rd., Aberdeen AB1 3RA, UK]

86-003533 Bell, M. V.; R. J. Henderson; B. J. S. Pirie and J. R. Sargent. GROWTH, GILL STRUCTURE AND FATTY ACID COMPOSITION OF PHOSPHOLIPIDS IN THE TURBOT (*SCOPHTHALMUS MAXIMUS*) IN RELATION TO DIETARY POLYUNSATURATED FATTY ACID DEFICIENCIES. *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 365-369. FR 31(4)
[N.E.R.C. Inst. Mar. Biochem., St. Fittick's Rd., Aberdeen AB1 3RA, UK]

86-003534 Bergot, P.; N. Charlon and H. Durante. THE EFFECT OF COMPOUND DIETS FEEDING ON GROWTH AND SURVIVAL OF COREGONID LARVAE. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:265-272. 1986. In English with German summ. FR 31(4)
[Cent. Rech. Hydrobiol., B.P 3, Saint-pee-sur-Nivelle, 64310, France]

86-003535 Bromley, P. J. and P. A. Sykes. WEANING DIETS FOR TURBOT (*SCOPHTHALMUS MAXIMUS* L.), SOLE (*SOLEA SOLEA* L.) AND COD (*GADUS MORHUA* L.). *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 191-211. FR 31(4)
[M.A.F.F. Dir. Fish. Res., Fish. Lab., Lowestoft, Suffolk NR33 OHT, UK]

FEEDS, FEEDING, AND NUTRITION (CONTINUED)

86-003536 Charlon, N. and P. Bergot. AN IMPROVED AUTOMATIC DRY FOOD DISPENSER FOR FISH LARVAE. *Prog. Fish-Cult.* 48(2):156-158. 1986. FR 31(4)
[Inst. Natl. Rech. Agron., Stn. Hydrobiol., Boite Post. 3, Saint Pee-sur-Nivelle, 64310 Ascain, France]

86-003537 Charlon, N.; H. Durante; A. Escaffre and P. Bergot. [ARTIFICIAL FOOD FOR LARVAL CARP (*CYPRINUS CARPIO* L.).] *Aquaculture* 54(1-2): 83-88. 1986. In French with English summ. FR 31(4)
[Unite Elevage Larvaire, INRA, Stn. Hydrobiol., B.P.3, Saint Pee-sur-Nivelle, 64310 Ascain, France]

86-003538 Cho, C. Y. and S. J. Kaushik. EFFECTS OF PROTEIN INTAKE ON METABOLIZABLE AND NET ENERGY VALUES OF FISH DIETS. *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 95-117. FR 31(4)
[Fish Nutr. Lab., Dep. Nutr., Univ. Guelph, Guelph, ON, Canada]

86-003539 Cowey, C. B.; A. M. Mackie and J. G. Bell. NUTRITION AND FEEDING IN FISH. *Academic Press Inc. (London) Ltd.* xiii+489p. 1985. FR 31(4)
[Inst. Mar. Biochem., Aberdeen, Scotland]

86-003540 Crampton, V. O. THE APPLICATION OF NUTRITIONAL FINDINGS TO THE FORMULATION OF PRACTICAL DIETS. *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 447-464. FR 31(4)
[Ewos-Baker Ltd., Westfield, Bathgate, West Lothian EH48 3BP, UK]

86-003541 Cruz, E. M. and R. C. Magisa. POND EVALUATION OF DIFFERENT FEED FORMULATIONS. *Freshwater Aquacult. Cent. Cent. Luzon State Univ. Tech. Rep.* No. 18. p. 13-14. 1980. FR 31(4)

86-003542 Cruz, E. M. and R. C. Magisa. SUPPLEMENTAL FEEDING OF MULBERRY LEAF MEAL. *Freshwater Aquacult. Cent. Cent. Luzon State Univ. Tech. Rep.* No. 20. p. 14-18. 1981. FR 31(4)

86-003543 Cruz, E. M. and F. P. Alcances. WATER STABILITY OF FISH FEEDS USING DIFFERENT LEVELS OF KELP. *Freshwater Aquacult. Cent. Cent. Luzon State Univ. Tech. Rep.* No. 20. p. 11-13. 1981. FR 31(4)

86-003544 Eckmann, R.; R. Rosch; J. Ortlepp and G. Kleifeld. SURVIVAL AND GROWTH OF COREGONID LARVAE FROM LAKE CONSTANCE FED ON ZOOPLANKTON OF DIFFERENT ORIGIN. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:202-214. 1986. In English with German summ. FR 31(4)
[Limnol. Inst., Univ. Constance, P.O. Box 5560, D-7750 Konstanz, West Germany]

86-003545 Fluchter, J. and H. Rembold. SOLUBLE FACTOR ESSENTIAL FOR METAMORPHOSIS OF COREGONID LARVAE HAS BEEN PARTIALLY PURIFIED FROM *ARTEMIA SALINA*. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:197-202. 1986. FR 31(4)
[H. Rembold: Max-Plank-Inst. Biochem., D-8033 Martinsried bei Munchen, West Germany]

86-003546 Forneris, G.; M. Boccignone and L. Damaiso. [EXTRUDED CORN IN RAINBOW TROUT (*SALMO GAIRDNERI*) FEEDING.] *Riv. Ital. Piscic. Ittiop.* 21(2):59-62. 1986. In Italian with English summ. FR 31(4)
[Dip. Prod. Anim., Ispez. Igiene Vet., Fac. Med. Vet., Torino, Italy]

FEEDS, FEEDING, AND NUTRITION (CONTINUED)

86-003547 Gatesoupe, F. J.; J. H. Roblin; C. Le Milinaire and E. Lebegue. IMPROVING THE NUTRITIVE VALUE LIVE FOOD ORGANISMS BY GIVING THEM COMPOUND DIETS. *IN: B. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 209-222. In French with English, Spanish and Italian summ. FR 31(4d)
[INRA, Lab. d'Elevage Nutr. Poissons, Saint-pee-sur-Nivelle, F 64310 Ascain, France]

86-003548 Gatlin, D. M. III and R. P. Wilson. DIETARY COPPER REQUIREMENT OF FINGERLING CHANNEL CATFISH. *Aquaculture* 54(4):277-285. 1986. FR 31(4)
[Dep. Biochem., Miss. State Univ., Mississippi State 39762]

86-003549 Halver, J. E. RECENT ADVANCES IN VITAMIN NUTRITION AND METABOLISM IN FISH. *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 415-429. FR 31(4)
[Sch. Fish., Univ. Wash., Seattle 98195]

86-003550 Hofer, R. EFFECTS OF ARTIFICIAL DIETS ON THE DIGESTIVE PROCESSES OF FISH LARVAE. *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 213-316. FR 31(4)
[Inst. Zool., Univ. Innsbruck, Austria]

86-003551 Holm, J. C. YOLK SAC ABSORPTION AND EARLY FOOD SELECTION IN ATLANTIC SALMON FEEDING ON LIVE PREY. *Aquaculture* 54(3):173-183. 1986. FR 31(4)
[Dep. Fish. Biol., Univ. Bergen, P.O. Box 1839, N-5011 Nordnes-Bergen, Norway]

86-003552 Kamler, E.; M. Lewkowicz; S. Lewkowicz, J. Uchmanski and E. Urban-Jezierska. GRAVIMETRIC TECHNIQUES FOR MEASURING CONSUMPTION OF LIVE FOODS AND ARTIFICIAL DIETS BY FISH LARVAE. *Aquaculture.* 54(1-2):109-122. 1986. FR 31(4)
[Inst. Ecol., Polish Acad. Sci., Dziekanow Lesny, 05-092 Lomianki, Poland]

86-003553 Kanazawa, A. ESSENTIAL FATTY ACID AND LIPID REQUIREMENT OF FISH. *IN:C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 281-298. FR 31(4)
[Fac. Fish., Kazoshima Univ., 4-50-20 Shimoarata, Kagoshima 890, Japan]

86-003554 Kanazawa, A.; S. Teshima and M. Sakamoto. EFFECTS OF DIETARY BONITO-EGG PHOSPHOLIPIDS AND SOME PHOSPHOLIPIDS ON GROWTH AND SURVIVAL OF THE LARVAL AYU, *PLECOGLOSSUS ALTIVELIS. J. Appl. Ichthyol.* 1(4)165-171. 1985. FR 31(4)
[Fac. Fish., Univ. Kagoshima, Japan]

86-003555 Kaushik, S. J.; K. Dabrowski and P. Bergot. METABOLIC ASPECTS OF DRY DIET UTILIZATION BY JUVENILE COREGONIDS. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:161-169. 1986. FR 31(4)
[INRA, Lab. Nutr. Poissons, B.P.3 Saint-Pee-sur-Nivelle, F-64310 Ascain, France]

86-003556 Ketola, H. G. MINERAL NUTRITION: EFFECTS OF PHOSPHORUS IN TROUT AND SALMON FEEDS ON WATER POLLUTION. *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 465-473. FR 31(4)
[U.S. FWS, Tunison Lab. Fish Nutr., 28 Gracie Rd., Cortland, NY 13045]

FEEDS, FEEDING, AND NUTRITION (CONTINUED)

86-003557 Kim, K. K. et al. [THE EFFECTS OF FEEDING REGIMES ON THE GROWTH AND SURVIVAL RATES DURING METAMORPHOSIS OF FLATFISH, *LIMANDA YOKOHAMAE.*] *Bull. Fish. Res. Dev. Agnecy* No. 36. p. 53-59. 1985. From Kor. Sci. Abstr. 18(2):40. 1986. In Korean with English summ. FR 31(4)

86-003558 Kirchgessner, M. and F. J. Schwarz. MINERAL CONTENT (MAJOR AND TRACE ELEMENTS) OF CARP (*CYPRINUS CARPIO* L.) FED WITH DIFFERENT PROTEIN AND ENERGY SUPPLIES. *Aquaculture* 54(1-2):3-9. 1986. FR 31(4)
[Inst. Ernahrungsphysiol. Tech. Univ. Munchen, D-8050 Freising-Weihenstephan, West Germany]

86-003559 Knights, B. FEEDING BEHAVIOUR AND FISH CULTURE. *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 223-241. FR 31(4)
[Appl. Ecol. Res. Group, Polytech. Cent. London, 115 New Cavendish St., London W1M 8SS, England]

86-003560 Lemm, C. A. and D. V. Rottiers. GROWTH OF TIGER MUSKELLUNGE FED DIFFERENT AMOUNTS OF PROTEIN AT THREE WATER TEMPERATURES. *Prog. Fish-Cult.* 48(2):101-106. 1986. FR 31(4)
[U.S.FWS, Div. Coop. Res. Units, Washington, DC 20240]

86-003561 Lindberg, J. C. and S. I. Doroshov. EFFECT OF DIET SWITCH BETWEEN NATURAL AND PREPARED FOODS ON GROWTH AND SURVIVAL OF WHITE STURGEON JUVENILES. *Trans. Am. Fish. Soc.* 115(1):166-171. 1986. FR 31(4)
[Dep. Anim. Sci., Univ. Calif., Davis 95616]

86-003562 Mackie, A. M. and A. I. Mitchell. IDENTIFICATION OF GUSTATORY FEEDING STIMULANTS FOR FISH-APPLICATIONS IN AQUACULTURE. *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 177-189. FR 31(4)
[N.E.R.C. Inst. Mar. Biochem., St. Fittick's Rd., Aberdeen AB1 3RA, UK]

86-003563 Mangalik, A. DIETARY ENERGY REQUIREMENTS OF CHANNEL CATFISH. *Ph.D. dissertation, Auburn Univ.* 139p. 1986. From Diss. Abstr. Int. B Sci. Eng. 47(2):445-446. 1986. FR 31(4)

86-003564 Masser, M. P. EFFECTS OF TEMPERATURE AND DIETARY ENERGY/PROTEIN RATIO ON GROWTH OF CHANNEL CATFISH *(ICTALURUS PUNCTATUS). Ph.D. dissertation, Tex. A&M Univ.* 124p. 1986. From Diss. Abstr. Int. B Sci. Eng. 47(4):1342. 1986. FR 31(4)

86-003565 McCallum, I. M. QUALITATIVE AND QUANTITATIVE ASPECTS OF THE PROTEIN NUTRITION OF JUVENILE CHINOOK SALMON *(ONCORHYNCHUS TSHAWYTSCHA). Ph.D. dissertation, Univ. British Columbia* 1985. From Diss. Abstr. Int. B Sci. Eng. 47(4):1342. 1986. FR 31(4)

86-003566 Miyazaki, T. A HISTOPATHOLOGICAL STUDY ON THE CARP FED α-TOCOPHEROL DEFICIENT DIETS INCLUDING OXIDIZED METHYL LINOLATE. *Fish Pathol.* 21(2):73-79. 1986. FR 31(4)
[Fac. Fish., Mie Univ., Edobashi, Tsu, Mie 514, Japan]

86-003567 Murray, A. P. and R. Marchant. NITROGEN UTILIZATION IN RAINBOW TROUT FINGERLINGS (*SALMO GAIRDNERI* RICHARDSON) FED MIXED MICROBIAL BIOMASS. *Aquaculture* 54(4):263-275. 1986. FR 31(4)

FEEDS, FEEDING, AND NUTRITION (CONTINUED)

86-003567 CONTINUED
[Dep. Biol., Univ. Ulster at Coleraine, Coleraine Cty., Londonderry, BT52 1SA, Northern Ireland]

86-003568 O'Grady, K. T. and P. B. Spillett. GROSS NUTRITION AND CONVERSION EFFICIENCY OF INTENSIVELY AND EXTENSIVELY REARED CARP (*CYPRINUS CARPIO* L.). *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 269-280. FR 31(4)
[Dep. Zool., Royal Holloway Coll., Englefield Green, Surrey TW20 9TY, UK]

86-003569 Ostroumova, I. N.; Z. I. Abramova and V. M. Amelyutin. THE INFLUENCE OF PHOSPHATIDES AND SELENIUM ON THE EFFICACY OF THE SUBSTITUTION OF PROTEIN PRODUCTS FROM MICROBIOSYNTHESIS FOR FISH MEAL IN FEED FOR CARP, *CYPRINUS CARPIO* IN WARM WATERS. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(1):98-105. 1986. FR 31(4)
[GOSNIROKh, Leningrad, USSR]

86-003570 Ostroumova, I. N. and Z. I. Abramova. ECOLOGICAL AND BIOLOGICAL CONDITIONS OF THE USE OF HIGH NUCLEIC ACID MICROBIOSYNTHESIS PRODUCTS AS FISH FEED. *Hydrobiol. J. (Engl. Transl. Gidrobiol. Zh.)* 21(3):13-19. 1985. FR 31(4)
[State Res. Inst. Oceanol. Fish., Leningrad, USSR]

86-003571 Poston, H. A. RESPONSE OF LAKE TROUT AND RAINBOW TROUT TO DIETARY CELLULOSE. *Fish Wildl. Tech. Rep.* 5. iii+6p. 1986. FR 31(4)
[U.S.FWS, Tunison Lab. Fish. Nutr., Cortland, NY 13045]

86-003572 Prikryl, I. [EVALUATION OF THE SIZE STRUCTURE OF ZOOPLANKTON AND THE POSSIBILITY OF ITS USE IN POND FISH CULTURE.] *Bul. Vurh Vodnany* 22(2):21-29. 1986. In Czech with English summ. FR 31(4)
[Vyzkumny ustav rybar. Hydrobiol., 389 25 Vodnany, Czechoslovakia]

86-003573 Recometa, R. D. and R. C. dela Cruz. PRODUCTION OF COMMON CARP FINGERLINGS IN PONDS WITH SUPPLEMENTAL FEEDING. *Freshwater Aquacult. Cent. Cent. Luzon State Univ. Tech. Rep.* No. 18. p. 5-9. 1980. FR 31(4)

86-003574 Rosch, R. and K. Dabrowski. TESTS OF ARTIFICIAL FOOD FOR LARVAE OF *COREGONUS LAVARETUS* FROM LAKE CONSTANCE. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:273-282. 1986. In English with German summ. FR 31(4)
[Inst. Seenforsch. Fischerewesen, Untere Seestr. 81, D-7994, Langenargen, West Germany]

86-003575 Schulz, H. SERUM AND TISSUE LEVELS OF TOCOPHEROLS IN CULTURED TURBOT (*SCOPHTHALMUS MAXIMUS* L.) FED VITAMIN E ENRICHED DIETS. *J. Appl. Ichthyol.* 2(3):117-124. 1986. In English with French and German summ. FR 31(4)
[Dep. Human Nutr. Food Sci., Univ. Kiel, West Germany]

86-003576 Segner, H. and J. V. Juario. HISTOLOGICAL OBSERVATIONS ON THE REARING OF MILKFISH, *CHANOS CHANOS*, FRY USING DIFFERENT DIETS. *J. Appl. Ichthyol.* 2(4):162-173. 1986. FR 31(4)
[Zool. Inst. I, Univ. Heidelberg, Heidelberg, West Germany]

FEEDS, FEEDING, AND NUTRITION (CONTINUED)

86-003577 Springate, J. R. C.; N. R. Bromage and P. R. T. Cumaranatunga. THE EFFECTS OF DIFFERENT RATION ON FECUNDITY AND EGG QUALITY IN THE RAINBOW TROUT (*SALMO GAIRDNERI*). *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 371-393. FR 31(4)
[Fish. Cult. Unit, Dep. Biol. Sci., Univ. Aston, Gosta Green, Birmingham B4 7ET, UK]

86-003578 Stickney, R. R. and W. A. Wurts. GROWTH RESPONSE OF BLUE TILAPIAS TO SELECTED LEVELS OF DIETARY MENHADEN AND CATFISH OILS. *Prog. Fish-Cult.* 48(2):107-109. 1986. FR 31(4)
[Sch. Fish., Univ. Wash., Seattle 98195]

86-003579 Sturmbauer, C. and R. Hofer. CAN AMYLASE INHIBITORS FROM WHEAT REDUCE THE DIGESTIBILITY OF STARCH AND THE GROWTH RATE IN FISH? *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 265-267. FR 31(4)
[Inst. Zool., Univ. Innsbruck, Austria]

86-003580 Szlaminska, M. and A. Przybyl. FEEDING OF CARP (*CYPRINUS CARPIO* L.) LARVAE WITH AN ARTIFICIAL DRY FOOD, LIVING ZOOPLANKTON AND MIXED FOOD. *Aquaculture* 54(1-2):77-82. 1986. FR 31(4)
[Inland Fish. Inst., Olsztyn, Poland]

86-003581 Tabachek, J. L. INFLUENCE OF DIETARY PROTEIN AND LIPID LEVELS ON GROWTH, BODY COMPOSITION AND UTILIZATION EFFICIENCIES OF ARCTIC CHARR, *SALVELINUS ALPINUS* L. *J. Fish Biol.* 29(2):139-151. 1986. FR 31(4)
[Freshwater Inst., 501 University Crescent, Winnipeg, MB R3T 2N6, Canada]

86-003582 Tacon, A. G. J. and A. J. Jackson. UTILISATION OF CONVENTIONAL AND UNCONVENTIONAL PROTEIN SOURCES IN PRACTICAL FISH FEEDS. *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 119-145. FR 31(4)
[Aquacult. Dep. Coord. Prog., Fish. Dep., FAO, Rome 00100, Italy]

86-003583 Tkaczyk, M. STUDIES ON INTENSIFICATION OF CARP FARMING. 7. CHARACTERISTICS OF CARP NUTRITION. *Acta Hydrobiol.* 27(2):205-217. 1986. FR 31(4)
[Polish Acad. Sci., Fish Cult. Exp. Stn., Golysz, 43-422 Chybie, Poland]

86-003584 Viola, S.; G. Zohar and Y. Arieli. REQUIREMENTS OF PHOSPHORUS AND ITS AVAILABILITY FROM DIFFERENT SOURCES FOR INTENSIVE POND CULTURE SPECIES IN ISRAEL. *Bamidgeh* 38(2):44-54. 1986. FR 31(4)
[Miloubar, D.N. Ashrat 25201, Israel]

86-003585 Watanabe, T. IMPORTANCE OF THE STUDY OF BROODSTOCK NUTRITION FOR FURTHER DEVELOPMENT OF AQUACULTURE. *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 395-414. FR 31(4)
[Lab. Fish. Nutr., Tokyo Univ. Fish., Konan 4-5-7, Minato-ku, Tokyo 108, Japan

86-003586 Wilson, R. P. AMINO ACID AND PROTEIN REQUIREMENTS OF FISH. *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 1-16. FR 31(4)
[Dep. Biochem., Miss. State Univ., Mississippi State 39762]

FEEDS, FEEDING, AND NUTRITION (CONTINUED)

86-003587 Wlasow, T. HEMATOLOGICAL STUDIES ON RAINBOW TROUT FRY (*SALMO GAIRDNERI* RICH.) FED WITH DIFFERENT FEED DOSES. *Acta Acad. Agric. Tech. Olst.* 268:107-114. 1985. In Polish with English and Russian summ. FR 31(4)

86-003588 Yamada, S. and Y. Yone. LOSS OF DIETARY AMINO ACIDS DURING MASTICATION BY CARP. *Bull. Jpn. Soc. Sci. Fish.* 52(4):673-676. 1986. FR 31(4)
[Fish. Res. Lab., Kyushu Univ., Tsuyazaki, Fukuoka 811-33, Japan]

TRANSPORTING FISH

86-003589 Berka, R. THE TRANSPORT OF LIVE FISH. A REVIEW. *EIFAC Tech. Pap.* 48. v+52p. 1986. FR 31(4)
[Fish. Res. Inst., Sci. Inf. Cent., 389 25 Vodnany, Czechoslovakia]

86-003590 Davis, K. B. and N. C. Parker. PLASMA CORTICOSTEROID STRESS RESPONSE OF FOURTEEN SPECIES OF WARMWATER FISH TO TRANSPORTATION. *Trans. Am. Fish. Soc.* 115(3):495-499. 1986. FR 31(4)
[Ecol. Res. Cent., Dep. Biol., Memphis State Univ., Memphis, TN 38152]

86-003591 Sampson, D. R. T. and D. J. Macintosh. TRANSPORTATION OF LIVE CARP FRY IN SEALED POLYTHENE BAGS. *Aquaculture* 54(1-2):123-127. 1986. FR 31(4)
[Inst. Aquacult., Univ. Stirling, Stirling FK9 4LA, U.K.]

AQUARIUMS

86-003592 Colton, J. THE CONVICT CICHLID--BEGINNERS LUCK. *Trop. Fish Hobbyist* 35(2):54-56, 58-59. 1986. FR 31(4)

86-003593 Dow, S. THE IMPORTANCE OF STABILITY IN MARINE AQUARIA. *Trop. Fish Hobbyist* 34(12):86-89. 1986. FR 31(4)

86-003594 Frados, A. THE IMPORTANCE OF LIGHT IN THE AQUARIUM. *Trop. Fish Hobbyist* 34(11):105-109. 1986. FR 31(4)

86-003595 Gery, J. and V. Mahnert. A NEW RUMMY-NOSE TETRA FROM THE RIO NEGRO, BRAZIL: *HEMICRAMMUS BLEHERI* N. SP. (CHARACIDAE, TETRAGONOPTERINAE), WITH COMMENTS ON *PARACHEIRODON*. *Trop. Fish Hobbyist* 34(11):37-52. 1986. FR 31(4)

86-003596 Hunziker, R. E. III. THE MARINE AQUARIUM MADE EASY. PART 1. SETTING UP. *Trop. Fish Hobbyist* 34(11):10-21. 1986. FR 31(4)

86-003597 Jam, P. T. A SPAWNING OF THE WHITE-TAILED DAMSELFISH. *Trop. Fish Hobbyist* 35(1):56-60. 1986. FR 31(4)

AQUARIUMS (CONTINUED)

86-003598 Kadlec, J. THE LYRE-FINNED PEARLFISH: *CYNOLEBIAS BOITONEI*. *Trop. Fish Hobbyist* 35(1):70-73. 1986. FR 31(4)

86-003599 Kirtley, P. T. SPAWNING RAINBOWFISHES MADE SIMPLE. *Trop. Fish Hobbyist* 35(2):44-45, 48-49. 1986. FR 31(4)

86-003600 Piken, H. SPAWNING *LAMPROLOGUS PLEUROMACULATUS*. *Trop. Fish Hobbyist* 35(1):52-55. 1986. FR 31(4)

86-003601 Pinkerton, A. BREEDING *CORYDORAS PYGMAEUS*. *Trop. Fish Hobbyist* 35(2):22-25, 28. 1986. FR 31(4)

86-003602 Richter, H. A BEAUTIFUL DWARF CICHLID *APISTOGRAMMA HONGSLOI*. *Trop. Fish Hobbyist* 34(12):64-67. 1986. FR 31(4)

86-003603 Richter, H. J. THE YELLOW DWARF CHICHLID, *APISTOGRAMMA BORELLII*. *Trop. Fish Hobbyist* 34(11):58-63. 1986. FR 31(4)

86-003604 Richter, H. THE SWORDTAIL CHARACIN--*CORYNOPOMA RIISEI*. *Trop. Fish Hobbyist* 35(1):44-45, 48-49. 1986. FR 31(4)

86-003605 Richter, H. THE BLUE NOTHO, *NOTHOBRANCHIUS PATRIZII*. *Trop. Fish Hobbyist* 35(2):10-14, 16-17, 19. 1986. FR 31(4)

86-003606 Schmidt-Focke, E. THE NEON BETTA. *Trop. Fish Hobbyist* 34(11):54-57. 1986. FR 31(4)

86-003607 Vajdak, B. SPAWING *LABEO FRENATUS*. *Trop. Fish Hobbyist* 35(2):36-37, 40-41. 1986. FR 31(4)

86-003608 Zacharias, L. G. WATER CHEMISTRY FOR THE FRESHWATER AQUARIST. *Trop. Fish Hobbyist* 34(11):98-104. 1986. FR 31(4)

MISCELLANEOUS CULTURE TECHNIQUES AND EQUIPMENT

86-003609 Amat Domenech, F. THE PRESENT STATE OF *ARTEMIA* EGGS: PERSPECTIVES AND AVAILABILITY. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 237-247. In French with English, Spanish and Italian summ. FR 31(4)
[Inst. Acuicult. Torre de la Sal, Ribera de Cabanes, Castellon, Spain]

MISCELLANEOUS CULTURE TECHNIQUES AND EQUIPMENT (CONTINUED)

86-003610 EIFAC. FLOW-THROUGH AND RECIRCULATION SYSTEMS. REPORT OF THE WORKING GROUP ON TERMINOLOGY, FORMAT AND UNITS OF MEASUREMENT. *EIFAC Tech. Pap.* 49. vi+100p. 1986. FR 31(4)
[FAO Of The UN, Rome, Italy]

86-003611 Erdahl A. W. FACTORS AFFECTING STORAGE AND FERTILIZATION OF FISH GAMETES. *Ph.D. Dissertation, Univ. Minn.* 140 p. 1986. From Diss. Abstr. Int. B Sci. Eng. 47(3):866. 1986. FR 31(4)

86-003612 Maurel, P. CLOSED CIRCUITS IN AQUACULTURE: TECHNOLOGIES AND FIELD OF APPLICATION. *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 251-275. In French with English, Spanish and Italian summ. FR 31(4)
[Technol. Piscic. Aqua., 50, rue Daniremont, F 75018 Paris, France]

86-003613 Obregon, M. H.; I. Ramos. and F. Perez. [SELECTIVITY IN SORTER NURSERIES.] *Rev. Cubana Invest. Pesq.* 7(1):60-79. 1982. In Spanish with English summ. FR 31(4)
[Cent. Invest. Pesq., Havana, Cuba]

86-003614 Szlauer, B. POSSIBILITIES OF OBTAINING ZOOPLANKTON FROM THE RIVER PLONIA TO FEED YOUNG FISH. *Acta Hydrobiol.* 25-26(2):165-171. 1984. FR 31(4)
[Acad. Agric., Dep. Hydrozool., Kazimierza Krolewicza 4, 71-550 Szczecin, Poland]

GENERAL LIMNOLOGY AND OCEANOGRAPHY

86-003615 Alekseenko, E. A. and B. A. Platonov. [AUTOMATIC PROCESSING OF VESSEL-DERIVED OCEANOGRAPHIC DATA.] *IN: Mathematical and Informational Requirements for Natural Resource Studies. VNIRO,* 1985. p. 7-15. In Russian with English summ. FR 31(4)

86-003616 Alekseenko, E. A.; T. I. Pashina; B. A. Platonov and A. E. Rogachev. [AN APPROACH TO THE DEVELOPMENT OF OCEANOGRAPHIC DATA CONTROL AUTOMATIC SYSTEM.] *IN: Mathematical and Informational Requirements for Natural Resource Studies. VINRO,* 1985. p. 60-71. In Russian with English summ. FR 31(4)

86-003617 Bryantsev, V. A.; D. Y. Fashchuk and M. S.Finkel'shtejn. ANTROPOGENIC CHANGES IN THE OCEANOGRAPHIC CHARACTERISTICS OF THE BLACK SEA. *In: Oceanographic and Fishery Investigations of the Black Sea. VNIRO, Moscow, USSR.* p.3-19. 1985. In Russian with English summ. FR 31(4)

86-003618 Cornett, R. J. and F. H. Rigler. SIMPLE METHOD OF MEASURING SESTON RESPIRATION IN OLIGOTROPHIC LAKES. *Can. J. Fish. Aquatic Sci.* 43(8):1660-1663. 1986. In English with French summ. FR 31(4)
[Atomic Energy of Canada Ltd., Res. Co., Chalk River Nuclear Lab., Chalk River, ON K0J 1J0, Canada]

86-003619 Mysak, L. A. EL NINO, INTERANNUAL VARIABILITY AND FISHERIES IN THE NORTHEAST PACIFIC OCEAN. *Can. J. Fish. Aquatic Sci.* 43(2):464-497. 1986. In English with French summ. FR 31(4)
[Dep. Math., Univ. British Columbia, Vancouver, BC V6T 1Y4, Canada]

GENERAL LIMNOLOGY AND OCEANOGRAPHY (CONTINUED)

86-003620 Zaripov. B. R. [MULTIPURPOSE COMPLEX FOR OCEANOGRAPHIC DATA PROCESSING WITH REFERENCE TO STUDIES OF PARAMETER FIELDS IN THE SOUTHEAST PACIFIC.] *IN: Mathematical and Informational Requirements for Natural Resource Studies. VNIRO*, 1985. p. 71-79. In Russian with English summ. FR 31(4)

PHYSICAL LIMNOLOGY AND OCEANOGRAPHY

86-003621 Bryantsev, V. A. and B. N. Panov. THERMAL LAG OF THE BLACK SEA WATERS AND POSSIBILITIES OF ITS UTILIZATION FOR FORECASTING PURPOSES. *In: Oceanographic and Fishery Investigations of the Black Sea. VNIRO, Moscow, USSR.* p.39-42. 1985. In Russian with English summ. FR 31(4)

86-003622 Koval'chuk, L. A.; V. I. Cheberkus and A. G. Galuzo. LONG-TERM FORECASTS OF THERMAL CHARACTERISTICS IN THE EASTERN BLACK SEA FOR FISHERY PURPOSES. *In: Oceanographic and Fishery Investigations of the Black Sea. VNIRO, Moscow, USSR.* p.43-49. 1985. In Russian with English summ. FR 31(4)

86-003623 Kozubskaya, G. I. and V. I. Slyusar. [ALGORITHMS OF PRIMARY PROCESSING AND FILING OF SATELLITE-INFERRED DATA ON OCEAN SURFACE TEMPERATURE.] *IN: Mathematical and Informational Requirements for Natural Resource Studies. VNIRO*, 1985. p. 54-60. In Russian with English summ. FR 31(4)

86-003624 Morantz, D. L.; S. E. Barbour and R. K. Sweeney. SOURCE OF ERROR IN WATER VELOCITY MEASUREMENT FOR AQUATIC STUDIES. *Can. J. Fish. Aquatic Sci.* 43(4):893-896. 1986. In English with French summ. FR 31(4)
[Dep. Fish. Oceans, P.O. Box 550, Halifax, NS B3J 2S7, Canada]

CHEMICAL LIMNOLOGY AND OCEANOGRAPHY

86-003625 Beard, K. A. and D. Smiley. SHORT-TERM ACID PULSES IN MOHONK LAKE. *N.Y. Fish Game J.* 31(2):188-195. 1986. FR 31(4)
[Mohonk Preserve, New Paltz, NY 12561]

86-003626 Brabrand, A.; B. A. Faafeng and J. P. Nilssen. FISH AND NUTRIENT DYNAMICS IN A DEEP, MESOTROPHIC LAKE. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2553. 1983. Abstract only. FR 31(4)

86-003627 Campbell, P. J. and F. H. Rigler. EFFECT OF AMBIENT OXYGEN CONCENTRATION ON MEASUREMENTS OF SEDIMENT OXYGEN CONSUMPTION. *Can. J. Fish. Aquatic Sci.* 43(7):1340-1349. 1986. In English with French summ. FR 31(4)
[Water Qual. Sect., Lab. Serv. Br., Ontario Minist. Environ., Box 213, Rexdale, ON M9W 5L1, Canada]

86-003628 Dawson, V. K. COMPUTER PROGRAM CALCULATION OF GAS SUPERSATURATION IN WATER. *Prog. Fish-Cult.* 48(2):142-146. 1986. FR 31(4)
[U.S. FWS, Natl. Fish. Res. Lab., P.O. Box 818, La Crosse, WI 54602]

86-003629 De Pinto, J. V.; T. C. Young; J. S. Bonner and P. W. Rodgers. MICROBIAL RECYCLING OF PHYTOPLANKTON PHOSPHORUS. *Can. J. Fish. Aquatic Sci.* 43(2):336-342. 1986. In English with French summ. FR 31(4)
[Dep. Civil Environ. Eng., Clarkson Univ., Potsdam, NY 13676]

CHEMICAL LIMNOLOGY AND OCEANOGRAPHY (CONTINUED)

86-003630 Fashchuk, D. Y. and L. K. Sebakh. CONTRIBUTION OF PHYSICAL AND HYDROCHEMICAL FACTORS TO THE DEVELOPMENT OF NEAR-BOTTOM HYPOXIA ALONG THE NORTHWESTERN SHELF OF THE BLACK SEA. *In: Oceanographic and Fishery Investigations of the Black Sea. VNIRO, Moscow, USSR.* p.19-29. 1985. In Russian with English summ. FR 31(4).

86-003631 Francko, D. A. EPILIMNETIC PHOSPHORUS CYCLING: INFLUENCE OF HUMIC MATERIALS AND IRON ON COEXISTING MAJOR MECHANISMS. *Can. J. Fish. Aquatic Sci.* 43(2):302-310. 1986. In English with French summ. FR 31(4)
[Dep. Bot. Microbiol., Okla. State Univ., Stillwater 74078]

86-003632 Heath, R. T. DISSOLVED ORGANIC PHOSPHORUS COMPOUNDS: DO THEY SATISFY PLANKTONIC PHOSPHATE DEMAND IN SUMMER. *Can. J. Fish. Aquatic Sci.* 43(2):343-350. 1986. In English with French summ. FR 31(4)
[Dep. Biol. Sci., Kent State Univ., Kent, OH 44242]

86-003633 Levine, S. N.; M. P. Stainton and D. W. Schindler. A RADIOTRACER STUDY OF PHOSPHORUS CYCLING IN A EUTROPHIC CANADIAN SHIELD LAKE, LAKE 227, NORTHWESTERN ONTARIO. *Can. J. Fish. Aquatic Sci.* 43(2):366-378. 1986. In English with French summ. FR 31(4)
[Ecosystems Res. Cent., Corson Hall, Cornell Univ., Ithaca, NY 14853]

86-003634 Nalewajko, C.; B. Paul; K. Lee and H. Shear. LIGHT HISTORY, PHOSPHORUS STATUS, AND THE OCCURRENCE OF LIGHT STIMULATION OR INHIBITION OF PHOSPHATE UPTAKE IN LAKE SUPERIOR PHYTOPLANKTON AND BACTERIA. *Can. J. Fish Aquatic Sci.* 43(2):329-335. 1986. In English with French summ. FR 31(4)
[Life Sci. Div., Scarborough Campus, Univ. Toronto, Scarborough, ON M1G 1A4, Canada]

86-003635 Nurnberg, G. K.; M. Shaw; P. J. Dillon and D. J. McQueen. INTERNAL PHOSPHORUS LOAD IN AN OLIGOTROPHIC PRECAMBRIAN SHIELD LAKE WITH AN ANOXIC HYPOLIMNION. *Can. J. Fish. Aquatic Sci.* 43(3):574-580. 1986. In English with French summ. FR 31(4)
[Ontario Minist. Environ, P.O. Box 39, Dorset, ON P0A 1E0, Canada]

86-003636 Pomazanova, N. P.; M. S. Finkel'shtejn and V. A. Khimitsa. ESTIMATED PHOSPHATE EXCHANGE BETWEEN PHOTOSYNTHESIS AND REGENERATION LEVELS IN THE BLACK SEA. *In: Oceanographic and Fishery Investigations of the Black Sea. VNIRO, Moscow, USSR.* p.29-39. 1985. In Russian with English summ. FR 31(4).

86-003637 Rustad, S.; N. Christophersen and H. M. Seip. MODEL FOR STREAMWATER CHEMISTRY OF A TRIBUTARY TO HARP LAKE, ONTARIO. *Can. J. Fish. Aquatic Sci.* 43(3):625-633. 1986. In English with French summ. FR 31(4)
[Cent. Indus. Res., P.O. Box 350, Blindern, 0314 Oslo 3, Norway]

86-003638 Schelske, C. L.; E. F. Stoermer; G. L. Fahnenstiel and M. Haibach. PHOSPHORUS ENRICHMENT, SILICA UTILIZATION, AND BIOGEOCHEMICAL SILICA DEPLETION IN THE GREAT LAKES. *Can. J. Fish. Aquatic Sci.* 43(2):407-415. 1986. In English with French summ. FR 31(4)
[Great Lakes Res. Div., Univ. Mich., Ann Arbor 48109]

CHEMICAL LIMNOLOGY AND OCEANOGRAPHY (CONTINUED)

86-003639 Stewart, K. M. and R. F. Platford. HYPERSALINE GRADIENTS IN TWO CANADIAN HIGH ARCTIC LAKES. *Can. J. Fish. Aquatic Sci.* 43(9):1795-1803. 1986. In English with French summ. FR 31(4)
[Dep. Biol. Sci., State Univ. N. Y., Buffalo 14260]

86-003640 Tarapchak, S. J. and C. Nalewajko. SYNOPSIS: PHOSPHORUS-PLANKTON DYNAMICS SYMPOSIUM. *Can. J. Fish. Aquatic Sci.* 43(2):416-419. 1986. In English with French summ. FR 31(4)
[Great Lakes Environ. Res. Lab., 2300 Washtenaw Ave., Ann Arbor, MI 48104]

86-003641 Tatrai, I. and V. Istvanovics. THE ROLE OF FISH IN THE REGULATION OF NUTRIENT CYCLING IN LAKE BALATON, HUNGARY. *Freshwater Biol.* 16(3):417-424. 1986. FR 31(4)
[Balaton Limnol. Res. Inst., H-8737 Tihany, Hungary]

86-003642 Van Duyn-Henderson, J. A. and D. C. Lasenby. ZINC AND CADMIUM TRANSPORT BY THE VERTICALLY MIGRATING OPOSSUM SHRIMP, *MYSIS RELICTA*. *Can. J. Fish. Aquatic Sci.* 43(9):1726-1732. 1986. In English with French summ. FR 31(4)
[Watershed Ecosystems Prog., Trent Univ., Peterborough, ON K9J 7B8, Canada]

BENTHOS

86-003643 Behmer, D. J. and C. P. Hawkins. EFFECTS OF OVERHEAD CANOPY ON MACROINVERTEBRATE PRODUCTION IN A UTAH STREAM. *Freshwater Biol.* 16(3):287-300. 1986. FR 31(4)
[Dep. Biol. Chem., Lake Superior State Coll., Sault Ste. Marie, MI 49783]

86-003644 Feltmate, B. W.; R. L. Baker and P. J. Pointing. DISTRIBUTION OF THE STONEFLY NYMPH *PARAGNETINA MEDIA* (PLECOPTERA: PERLIDAE): INFLUENCE OF PREY, PREDATORS, CURRENT SPEED, AND SUBSTRATE COMPOSITION. *Can. J. Fish. Aquatic Sci.* 43(8):1582-1587. 1986. In English with French summ. FR 31(4)
[Dep. Zool., Erindale Coll., Univ. Toronto, Mississauga, ON L5L 1C6, Canada]

86-003645 Kirchhofer, D. A. A STREAM ECOSYSTEM IN AN OLD-GROWTH FOREST IN SOUTHEAST ALASKA: PART III: STANDING CROP AND DRIFT OF INVERTEBRATES IN PORCUPINE CREEK. *IN W. R. Meehan; T. R. Merrell, Jr. and T. A. Hanley (eds.). Fish and Wildlife Relationships in Old-Growth Forests. (Am. Inst. Fish. Res. Biol.)* p. 71-79. 1984. Available @ $20.00 from J. W. Reintjes, Rt. 4, Box 85, Morehead City, NC 28557. FR 31(4)
[NMFS, Auke Bay, AK]

86-003646 Lodge, D. M.; T. K. Kratz and G. M. Capelli. LONG-TERM DYNAMICS OF THREE CRAYFISH SPECIES IN TROUT LAKE, WISCONSIN. *Can. J. Fish. Aquatic Sci.* 43(5):993-998. 1986. In English with French summ. FR 31(4)
[Dep. Biol. Sci., Univ. Notre Dame, IN 46556]

86-003647 Peckarsky, B. L. COLONIZATION OF NATURAL SUBSTRATES BY STREAM BENTHOS. *Can. J. Fish. Aquatic Sci.* 43(3):700-709. 1986. In English with French summ. FR 31(3)
[Dep. Entomol., Cornell Univ., Ithaca, NY 14853]

PLANKTON

86-003648 Auer, M. T.; M. S. Kieser and R. P. Canale. IDENTIFICATION OF CRITICAL NUTRIENT LEVELS THROUGH FIELD VERIFICATION OF MODELS FOR PHOSPHORUS AND PHYTOPLANKTON GROWTH. *Can. J. Fish. Aquatic Sci.* 43(2):379-388. 1986. In English with French summ. FR 31(4)
[Dep. Civ. Eng., Mich. Technol. Univ., Houghton, MI 49931]

86-003649 Bowers, J. A. PHOSPHORUS REGENERATION BY THE PREDATORY COPEPOD *DIACYCLOPS THOMASI*. *Can. J. Fish. Aquatic Sci.* 43(2):361-365. 1986. In English with French summ. FR 31(4)
[Great Lakes Mar. Water Cent., Univ. Mich., Ann Arbor 48109]

86-003650 Campbell, C. E. and E. E. Prepas. EVALUATION OF FACTORS RELATED TO THE UNUSUALLY LOW CHLOROPHYLL LEVELS IN PRAIRIE SALINE LAKES. *Can. J. Fish. Aquatic Sci.* 43(4):846-854. 1986. In English with French summ. FR 31(4)
[Dep. Zool., Univ. Alberta, Edmonton, AB T6G 2E9, Canada]

86-003651 Chow-Fraser, P. AN EMPIRICAL MODEL TO PREDICT IN SITU GRAZING RATES OF *DIAPTOMUS MINUTUS* LILLJEBORG ON SMALL ALGAL PARTICLES. *Can. J. Fish. Aquatic Sci.* 43(5):1065-1070. 1986. In English with French summ. FR 31(4)
[Biol. Dep., Concordia Univ., 1455 de Maisonneuve Blvd. W., Montreal, PQ H3G 1M8, Canada]

86-003652 Currie, D. J. DOES ORTHOPHOSPHATE UPTAKE SUPPLY SUFFICIENT PHOSPHORUS TO PHYTOPLANKTON TO SUSTAIN THEIR GROWTH? *Can. J. Fish. Aquatic. Sci.* 43(8):1482-1487. 1986. In English with French summ. FR 31(4)
[Dep. Sci. Biol, Univ. Montreal, C.P. 6128, Succursale "A", Montreal, PQ H3C 3J7, Canada]

86-003653 Currie, D. J.; E. Bentzen and J. Kalff. DOES ALGAL-BACTERIAL PHOSPHORUS PARTITIONING VARY AMONG LAKES? A COMPARATIVE STUDY OF ORTHOPHOSPHATE UPTAKE AND ALKALINE PHOSPHATASE ACTIVITY IN FRESHWATER. *Can. J. Fish. Aquatic Sci.* 43(2):311-318. 1986. In English with French summ. FR 31(4)
[Dep. Biol., Univ. Ottawa, Ottawa, ON K1N 6N5, Canada]

86-003654 D'Elia, C. F.; J. G. Sanders and W. R. Boynton. NUTRIENT ENRICHMENT STUDIES IN A COASTAL PLAIN ESTUARY: PHYTOPLANKTON GROWTH IN LARGE-SCALE, CONTINUOUS CULTRES. *Can. J. Fish. Aquatic Sci.* 43(2): 397-406. 1986. In English with French summ. FR 31(4)
[Chesapeake Biol. Lab., Cent. Environ. Estuarine Stud., Univ. Md., P.O. Box 38, Solomons 20688-0038]

86-003655 Earle, J, C.; H. C. Duthie and D. A. Scruton. ANALYSIS OF THE PHYTOPLANKTON COMPOSITION OF 95 LABRADOR LAKES, WITH SPECIAL REFERENCE TO NATURAL AND ANTHROPOGENIC ACIDIFICATION. *Can. J. Fish. Aquatic Sci.* 43(9):1804-1811. 1986. In English with French summ. FR 31(4)
[Dep. Biol., Univ. Waterloo, Waterloo, ON N2L 3G1, Canada]

86-003656 Harding, G. C.; W. P. Vass; B. T. Hargrave and S. Pearre, Jr. DIEL VERTICAL MOVEMENTS AND FEEDING ACITIVITY OF ZOOPLANKTON IN ST. GEORGES BAY, N.S., USING NET TOWS AND A NEWLY DEVELOPED PASSIVE TRAP. *Can. J. Fish.*

PLANKTON (CONTINUED)

86-003656 CONTINUED *Aquatic Sci.* 43(5):952-967. 1986. In English with French summ. FR 31(4)
[Bedford Inst. Oceanogr., P.O. Box 1006, Dartmouth, NS B2Y 4A2, Canada]

86-003657 Kilham, S. S. DYNAMICS OF LAKE MICHIGAN NATURAL PHYTOPLANKTON COMMUNITIES IN CONTINUOUS CULTURES ALONG A SI:P LOADING GRADIENT. *Can. J. Fish. Aquatic Sci.* 43(2):351-360. 1986. In English with French Summ. FR 31(4)
[Div. Biol. Sci., Univ. Mich., Ann Arbor 48109-1048]

86-003658 Kiorboe, T. and K. Johansen. STUDIES OF A LARVAL HERRING *(CLUPEA HARENGUS* L.) PATCH IN THE BUCHAN AREA. IV. ZOOPLANKTON DISTRIBUTUON AND PRODUCTIVITY IN RELATION TO HYDROGRAPHIC FEATURES. *Dana* 6:37-51. 1986. FR 31(4)
[Danish Inst. Fish. Mar. Res., Charlottenlund Palace, DK-2920 Charlottenlund, Denmark]

86-003659 Longhurst, A. R. INSTAR INCREMENTS IN COPEPOD GROWTH. *Can. J. Fish. Aquatic Sci.* 43(8):1671-1674. 1986. In English with French summ. FR 31(4)
[Bedford Inst. Oceanogr., Dartmouth, NS B2Y 4A2, Canada]

86-003660 Mashtakova, G. P. LONG-TERM DYNAMICS OF PLANKTON COMMUNITY IN THE EASTERN BLACK SEA. *In: Oceanographic and Fishery Investigations of the Black Sea. VNIRO, Moscow, USSR.* p.50-61. 1985. In Russian with English summ. FR 31(4)

86-003661 Middlebrook, K. and J. C. Roff. COMPARISON OF METHODS OF ESTIMATING ANNUAL PRODUCTIVITY OF THE COPEPODS *ACARTIA HUDSONICA* AND *EURYTEMORA HERDMANI* IN PASSAMOQUODDY BAY, NEW BRUNSWICK. *Can. J. Fish. Aquatic Sci.* 43(3):656-664. 1986. In English with French summ. FR 31(4)
[Dep. Zool., Coll. Biol. Sci., Univ. Guelph, Guelph, ON N1G 2W1, Canada]

86-003662 Nero, R. W. and W. G. Sprules. ZOOPLANKTON SPECIES ABUNDANCE AND BIOMASS IN RELATION TO OCCURRENCE OF *MYSIS RELICTA* (MALACOSTRACA: MYSIDACEA). *Can. J. Fish. Aquatic Sci.* 43(2):420-434. 1986. In English with French summ. FR 31(4)
[Dep. Zool., Erindale Campus, Univ. Toronto, Mississauga, ON L5L 1C6, Canada]

86-003663 Pavlov, V. Y. [ON THE FORMATION AND FUNCTIONS OF CONCENTRATIONS OF FORAGE ORGANISMS (WITH REFERENCE TO CLADOCERA).] *IN: Feeding and Nutritional Requirements of Fish at Different Stages of Development as Factors Determining Year-Class Strength. VNIRO,* 1985. p. 120-132. In Russian with English summ. FR 31(4)

86-003664 Pavlov, V. Y. [TYPES OF CONCENTRATIONS OF PELAGIC CRUSTACEANS WHICH ARE CONSUMED BY FISHES.] *IN: Feeding and Nutritional Requirements of Fish at Different Stages of Development as Factors Determining Year-Class Strength. VNIRO,* 1985. p. 107-119. In Russian with English summ. FR 31(4)

86-003665 Sakshaug, E. and Y. Olsen. NUTRIENT STATUS OF PHYTOPLANKTON BLOOMS IN NORWEGIAN WATERS AND ALGAL STRATEGIES FOR NUTRIENT COMPETITION. *Can. J Fish. Aquatic Sci.* 43(2):389-396. 1986. In English with French

PLANKTON (CONTINUED)

86-003665 CONTINUED summ. FR 31(4)
[Biol. Stn., Univ. Trondheim Mus., N-7000 Trondheim, Norway]

86-003666 Shortreed, K. S. and J. G. Stockner. TROPIC STATUS OF 19 SUBARCTIC LAKES IN THE YUKON TERRITORY. *Can. J. Fish. Aquatic Sci.* 43(4): 797-805. 1986. In English with French summ. FR 31(4)
[Dep. Fish. Oceans, 4160 Marine Dr., West Vancouver, BC V7V 1N6, Canada]

86-003667 Sprules, W. G. and M. Munawar. PLANKTON SIZE SPECTRA IN RELATION TO ECOSYSTEM PRODUCTIVITY, SIZE, AND PERTURBATION. *Can. J. Fish. Aquatic Sci.* 43(9):1789-1794. 1986. In English with French summ. FR 31(4)
[Dep. Zool., Univ. Toronto, Erindale Coll., Mississauga, ON L5L 1C6, Canada]

86-003668 Suttle, C. A. and P. J. Harrison. PHOSPHATE UPTAKE RATES OF PHYTOPLANKTON ASSEMBLAGES GROWN AT DIFFERENT DILUTION RATES IN SEMICONTINUOUS CULTURE. *Can. J. Fish. Aquatic. Sci.* 43(8):1474-1481. 1986. In English with French summ. FR 31(4)
[Dep. Bot., Univ. British Columbia, 6270 University Blvd., Vancouver, BC V6T 1W5, Canada]

86-003669 Tarapchak, S. J. and L. R. Herche. PHOSPHATE UPTAKE BY MICROORGANISMS IN LAKE WATERS: DEVIATIONS FROM SIMPLE MICHAELIS-MENTEN KINETICS. *Can. J. Fish. Aquatic Sci.* 43(2):319-328. 1986. In English with French summ. FR 31(4)
[Great Lakes Environ. Res. Lab., 2300 Washtenaw Ave., Ann Arbor, MI 48104]

86-003670 Tarapchak, S. J. and C. Nalewajko. INTRODUCTION: PHOSPHORUS-PLANKTON DYNAMICS SYMPOSIUM. *Can. J. Fish Aquatic Sci.* 43(2):293-301. 1986. In English with French summ. FR 31(4)
[Great Lakes Environ. Res. Lab., 2300 Washtenaw Ave., Ann Arbor, MI 48104]

86-003671 Walter, R. A. A STREAM ECOSYSTEM IN AN OLD-GROWTH FOREST IN SOUTHEAST ALASKA: PART II: STRUCTURE AND DYNAMICS OF THE PERIPHYTON COMMUNITY. *IN W. R. Meehan; T. R. Merrell, Jr. and T. A. Hanley (eds.). Fish and Wildlife Relationships in Old-Growth Forests. (Am. Inst. Fish. Res. Biol.)* p. 57-69. 1984. Available @ $20.00 from J. W. Reintjes, Rt. 4, Box 85, Morehead City, NC 28557. FR 31(4)
[NMFS Auke Bay, AK]

86-003672 Yan, N. D. EMPIRICAL PREDICTION OF CRUSTACEAN ZOOPLANKTON BIOMASS IN NUTRIENT-POOR CANADIAN SHIELD LAKES. *Can. J. Fish. Aquatic Sci.* 43(4):788-796. 1986. In English with French summ. FR 31(4)
[Ontario Minist. Environ., Dorset Res. Cent., P.O. Box 39, Dorset, ON P0A 1E0, Canada]

86-003673 Zettler, E. R. and J. C. H. Carter. ZOOPLANKTON COMMUNITY AND SPECIES RESPONSES TO A NATURAL TURBIDITY GRADIENT IN LAKE TEMISKAMING, ONTARIO-QUEBEC. *Can. J. Fish. Aquatic Sci.* 43(3):665-673. 1986. In English with French summ. FR 31(4)
[Dep. Biol., Clark 4, Woods Hole Oceanogr. Inst., Woods Hole, MA 02543]

PRIMARY PRODUCTION

86-003674 Hrbacek, J.; B. Desortova and J. Popovsky. INFLUENCE OF THE FISHSTOCK ON THE PHOSPHORUS-CHLOROPHYLL RATIO. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):1624-1628. 1977. FR 31(4)

86-003675 Richardson, K.; M. R. Heath and S. M. Pedersen. STUDIES OF LARVAL HERRING (*CLUPEA HARENGUS* L.) PATCH IN THE BUCHAN AREA. III. PHYTOPLANKTON DISTRIBUTION AND PRIMARY PRODUCTIVITY IN RELATION TO HYDROGRAPHIC FEATURES. *Dana* 6:25-36. 1986. FR 31(4)
[Danish Inst. Fish. Mar. Res., Charlottenlund Palace, DK-2920 Charlottenlund, Denmark]

MORPHOLOGY

86-003676 Able, K. W. CYPRINODONTIFORMES: DEVELOPMENT. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 362-368. 1984. FR 31(4)

86-003677 Able, K. W.; D. F. Markle and M. P. Fahay. CYCLOPTERIDAE: DEVELOPMENT. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 4285-437. 1984. FR 31(4)

86-003678 Aboussouan, A. and J. M. Leis. BALISTOIDEI: DEVELOPMENT. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 450-459. 1984. FR 31(4)

86-003679 Ahlstrom, E. H.; K. Amaoka; D. A. Hensly; H. G. Moser and B. Y. Sumida. PLEURONECTIFORMES: DEVELOPMENT. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 640-670. 1984. FR 31(4)

86-003680 Akster, H. A.; H. L. M. Granzier; J. W. M. Osse and A. Terlouw. MUSCLE FIBER TYPES AND MUSCLE FUNCTION IN FISH. *Fortschr. Zool.* 30:27-30. 1985. FR 31(4)
[Dep. Exp. Anim. Morphol. Cell Biol., Agric. Univ. Wageningen, POB 338, 6700 AH, Wageningen, Netherlands]

86-003681 Ali, S. S. VASCULATURE OF THE ENDOCRINE PANCREAS OF A TELEOST. *Fortschr. Zool.* 30:329-332. 1985. FR 31(4)
[Inst. Anat. Cell Biol., Univ. Giessen, Aulweg 123, D-6300 Giessen, West Germany]

86-003682 Anderson, M. J.; C. Y. Choy and S. G. Waxman. SELFORGANIZATION OF EPENDYMA IN REGENERATING TELEOST SPINAL CORD: EVIDENCE FROM SERIAL SECTION RECONSTRUCTIONS. *J. Embryol. Exp. Morphol.* 96:1-18. 1986. FR 31(4)
[Dep. Neurol., Stanford Univ., Sch. Med., Palo Alto, CA]

86-003683 Baatrup, E. SENSORY TERMINAL BUDS OF LARVAL AND ADULT LAMPREYS. *Fortschr. Zool.* 30:723-726. 1985. FR 31(4)
[Zool. Lab., Aarhus Univ., Ole Worms Bygn. 140, DK-8000 Aarhus C, Denmark]

86-003684 Barbour, C. D. and B. Chernoff. COMPARATIVE MORPHOLOGY AND MORPHOMETRICS OF THE PESCADOS BLANCOS (GENUS *CHIROSTOMA*) FROM LAKE CHAPALA, MEXICO. *IN: A. A. Echelle and I. Kornfield, (eds.). Evolution of Fish Species Flocks. Univ. Me. Orono Press.* 1984. p.111-127. FR 31(4)

MORPHOLOGY (CONTINUED)

86-003685 Bartels, H. MYOMUSCULAR JUNCTIONS IN THE GILL-SAC MUSCLE OF THE ATLANTIC HAGFISH, *MYXINE GLUTINOSA*: ANALOGY WITH MYOTENDINOUS JUNCTIONS. *Cell Tissue Res.* 246(1):223-225. 1986. FR 31(4)
[Lab. Electron Micros., Hannover Med. Sch., Hannover, West Germany]

86-003686 Behrend, K. THE MUSCULATURE OF THE ELECTRIC FISH *EIGENMANNIA VIRESCENS* (SOUTH AMERICAN GREEN KNIFE FISH) CHARACTERIZED WITH CYTOCHROME OXIDASE STAINING. *J. Fish Biol.* 29(3):365-369. 1986. FR 31(4)
[Arbeitsgruppe III (Biophys.), Inst. Zool., Johannes Gutenberg-Univ., Saarstr. 21, D-6500 Mainz, West Germany]

86-003687 Bell, M. A. and K. E. Richkind. CLINAL VARIATION OF LATERAL PLATES IN THREESPINE STICKLEBACK FISH. *Am. Nat.* 117(2):113-132. 1981. FR 31(4)

86-003688 Boehlert, G. W. SCANNING ELECTRON MICROSCOPY. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 43-48. 1984. FR 31(4)

86-003689 Brothers, E. B. OTOLITH STUDIES. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 50-57. 1984. FR 31(4)

86-003690 Bugaev, V. F. ADDITIONAL ZONES ON THE SCALES AND GROWTH PECULIARITIES OF JUVENILE SOCKEYE SALMON, *ONCORHYNCHUS NERKA*, IN THE KAMCHATKA RIVER BASIN. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):55-63. 1986. FR 31(4)
[KoTINRO, Petropavlovsk-Kamchatskiy, USSR]

86-003691 Castle, P. H. J. NOTACANTHIFORMES AND ANGUILLIFORMES: DEVELOPMENT. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p.62-93. 1984. FR 31(4)

86-003692 Chen Xinyu. [ON THE PHARYNGEAL BONES AND TEETH OF LEUCISCINAE FISHES (CYPRINIDAE).] *Zool. Res.* 7(2):191-196. 1986. In Chinese with English summ. FR 31(4)
[Inst. Zool., Acad. Sci., Beijing, China]

86-003693 Chen, L. MERISTIC VARIATION IN *SEBASTES* (SCORPAENIDAE), WITH AN ANALYSIS OF CHARACTER ASSOCIATION AND BILATERAL PATTERN AND THEIR SIGNIFICANCE IN SPECIES SEPARATION. *NOAA Tech. Rep. NMFS* 45. ii+17p. 1986. FR 31(4)
[Dep. Biol., San Diego State Univ., San Diego, CA 92182]

86-003694 Crawford, C. M. DEVELOPMENT OF EGGS AND LARVAE OF THE FLOUNDERS *RHOMBOSOLEA TAPIRINA* AND *AMMOTRETIS ROSTRATUS* (PISCES: PLEURONECTIDAE). *J. Fish Biol.* 29(3):325-334. 1986. FR 31(4)
[Fish Res. Group, Dep. Zool., Univ. Tasmania, Box 252C GPO, Hobart, Tasmania, Australia 7001]

86-003695 Crowley, L. E. L. M. and W. Ivantsoff. REPRODUCTION AND EARLY STAGES OF DEVELOPMENT IN TWO SPECIES OF AUSTRALIAN RAINBOWFISHES, *MELANOTAENIA NIGRANS* (RICHARDSON) AND *MELANOTAENIA SPLENDIDA INORNATA*

MORPHOLOGY (CONTINUED)

86-003695 CONTINUED (CASTELNAU). *Aust. Zool.* 21(2):85-95. 1982. FR 31(4)
[Sch. Biol. Sci., Macquarie Univ., North Ryde, NSW 2113, Australia]

86-003696 Cuadrado, M. I.; M. T. Alonso; J. Lara and J. Aijon. [STRUCTURAL ORGANIZATION OF THE *NUCLEUS ROTUNDUS* OF THE CARP, *CYPRINUS CARPIO* L.] *Arch. Biol.* 95(3):275-284. 1986. In French with English summ. FR 31(4)
[Dep. Citol. Histol., Fac. Biol., Univ. Salamanca, Salamanca, Spain]

86-003697 Davenport, J.; S. Lonning and E. Kjorsvik. SOME MECHANICAL AND MORPHOLOGICAL PROPERTIES OF THE CHORIONS OF MARINE TELEOST EGGS. *J. Fish Biol.* 29(3):289-301. 1986. FR 31(4)
[Anim. Biol. Group, Mar. Sci. Lab., Menai Bridge, Gwynedd LL59 5EH, North Wales, UK]

86-003698 Dunn, J. R. DEVELOPMENTAL OSTEOLOGY. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 48-50. 1984. FR 31(4)

86-003699 Eccles, D. H. DEVELOPMENT OF THE GUT IN THE SOUTH AFRICAN CYPRINID FISH *BARBUS AENEUS* (BURCHELL). *S. Afr. J. Zool.* 21(2):165-169. 1986. In English with Afrikaans summ. FR 31(4)
[c/o Dir. Fish. Res., Lowestoft, NR33 OHT, U.K.]

86-003700 Emery, S. H. HEMATOLOGY AND CARDIAC MORPHOLOGY IN THE GREAT WHITE SHARK, *CARCHARODON CARCHARIAS*. *Mem. South. Calif. Acad. Sci.* 9:73-80. 1985. FR 31(4)
[West Coast Reg. Water Supply Auth., 2535 Landmark Dr., Suite 211, Clearwater, FL 33519]

86-003701 Es-Sounni, A. and M. A. Ali. ULTRASTRUCTURE OF THE RETINAL PIGMENTED EPITHELIUM OF LIGHT- AND DARK-ADAPTED YOUNG, PIGMENTED, AND MATURE SILVER EELS, *ANGUILLA ANGUILLA* (PISCES, TELEOSTEI). *Zoomorphology (Berl.)* 106(3):179-184. 1986. FR 31(4)
[Cent. Rech. Photobiophys., Univ. Quebec. Trois-Riveres, C.P. 500, Trois Riveres, PQ G9A 5H7, Canada]

86-003702 Escaffre, A. M. and P. Bergot. [QUANTITATIVE MORPHOLOGY OF LIVER IN RAINBOW TROUT ALEVINS *(SALMO GAIRDNERI)* ORIGINATING FROM BIG AND SMALL SIZED EGGS: INFLUENCE OF THE FIRST MEAL TIME.] *Arch. Hydrobiol.* 107(3):331-348. 1986. In French with English summ. FR 31(4)
[I.N.R.A. Stn. Hydrobiol., B.P.3, Saint-Pee-sur-Nivelle, 64310 Ascain, France]

86-003703 Fernholm, B. THE LATERAL LINE SYSTEM OF CYCLOSTOMES. *IN: R. E. Foreman; A. Gorbman; J. M. Dodd and R. Olsson (eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 113-122. FR 31(4)
[Dep. Vert. Zool., Swed. Mus. Nat. Hist., Stockholm, Sweden]

86-003704 Fetzer, M. ON THE COURSE OF PERIPHERAL AXONS INNERVATING ELECTRIC ORGANS IN MORMYRIFORMS, A COMPARATIVE STUDY. *Fortschr. Zool.* 30:615-618. 1985. FR 31(4)

MORPHOLOGY (CONTINUED)

86-003705 Fossum, P. A STAGING SYSTEM FOR LARVAL COD (*GADUS MORHUA* L.). *Fiskeridir. Skr. Ser. Havunders.* 18(2):69-76. 1986. FR 31(4)
[Inst. Mar. Res., Bergen, Norway] A staging system of larval cod is described. The system is based on the resorption of the yolk mass and the cell layers surrounding it combined with eye, mouth and gut developmenmt. A determination key is given. Each stage is described in detail.

86-003706 Fossum, P. THE DURATION OF THE FIRST TWO-YOLK SAC STAGES IN HERRING (*CLUPEA HARENGUS* L.) LARVAE. *Fiskerider. Skr. Ser. Havunders.* 18(2):77-82. 1986. FR 31(4)
[Inst. Mar. Res., Bergen, Norway]

86-003707 Fukuda, M.; Y. Yano; H. Nakano and M. Sugiyama. [PROTEIN AND NUCLEIC ACID CHANGES DURING EARLY DEVELOPMENTAL STAGES OF CRESTHEAD FLOUNDER.] *Bull. Jpn. Soc. Sci. Fish.* 52(6):951-955. 1986. In Japanese with English summ. FR 31(4)
[Res. Inst. North Pac. Fish., Fac. Fish., Hokkaido Univ., Hakodate 041, Japan]

86-003708 Gartner, J. V., Jr. OBSERVATIONS ON ANOMALOUS CONDITIONS IN SOME FLATFISHES (PISCES: PLEURONECTIFORMES), WITH A NEW RECORD OF PARTIAL ALBINISM. *Environ. Biol. Fishes* 17(2): 141-152. 1986. FR 31(4)
[Fla. Dep. Nat. Resour., Bur. Mar. Res., 100 8th Ave. S.E., St. Petersburg, FL 33701]

86-003709 Gauldie, R. W.; D. Dunlop and J. Tse. THE SIMULTANEOUS OCCURRENCE OF OTOCONIA AND OTOLITHS IN FOUR TELEOST FISH SPECIES. *N. Z. J. Mar. Freshwater Res.* 20(1):93-99. 1986. FR 31(4)
[Fish. Res. Div., P.O. Box 297, Wellington, New Zealand]

86-003710 Gauldie, R. W.; D. Dunlop and J. Tse. THE REMARKABLE LUNGFISH OTOLITH. *N. Z. J. Mar. Freshwater Res.* 20(1):81-92. 1986. FR 31(4)
[Fish. Res. Div., P.O. Box 297, Wellington, New Zealand]

86-003711 Geraudie, J. COMPARATIVE FINE STRUCTURE OF THE ACTINOTRICHIA (ELASTOIDIN) IN DEVELOPING TELEOST AND DIPNOI FISH FINS. *NATO Adv. Stud. Inst. Ser. Ser. A Life Sci.* 93:451-456. 1985. FR 31(4)
[Anat. Comp. Lab., Univ. Paris 07, CNRS, F-75251 Paris 05, France]

86-003712 Gjosaeter, H. and J. Gjosaeter. OBSERVATIONS ON THE EMBRYONIC DEVELOPMENT OF CAPELIN (*MALLOTUS VILLOSUS* MULLER) FROM THE BARENTS SEA. *Fiskerider. Skr. Ser. Havunders.* 18(2):59-68. 1986. FR 31(4)
[Inst. Mar. Res., Bergen, Norway]

86-003713 Goel, H. R. THE FUNCTIONAL ANATOMY OF THE OLFACTORY ORGANS IN THE FRESH WATER TELEOST FISH, *CHANNA MARULIUS* HAMILTON. *Arch. Biol.* 91(1):1-13. 1980. FR 31(4)

86-003714 Goldschmid, A. and K. Kotrschal. MORPHOLOGICAL AND FUNCTIONAL ADAPTIONS IN DIFFERENT FEEDING TYPES OF BLENNIES (PERCIFORMES, TELEOSTEI). *Fortschr. Zool.* 30:241-244. 1985. FR 31(4)
[Inst. Zool., Salzbrug Univ., Akadstr. 26, A-5020 Salzburg, Austria]

86-003715 Gorbman, A. and A. Tamarin. EARLY DEVELOPMENT OF ORAL, OLFACTORY AND ADENOHYPOPHYSEAL STRUCTURES OF AGNATHANS AND ITS EVOLUTIONARY IMPLICATIONS. *IN: R. E. Foreman; A. Gorbman; J. M. Dodd and R. Olsson*

MORPHOLOGY (CONTINUED)

86-003715 CONTINUED *(eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 165-185. FR 31(4)
[Dep. Zool., Univ. Wash., Seattle]

86-003716 Gosline, W. A. JAW MUSCLE CONFIGURATION IN SOME HIGHER TELEOSTEAN FISHES. *Copeia* 1986(3):705-713. 1986. FR 31(4)
[Mus. Zool., Univ. Mich., Ann Arbor 48109]

86-003717 Govoni, J. J. HISTOLOGY. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 40-42. 1984. FR 31(4)

86-003718 Greenwood, P. H. THE *PARS JUGULARIS* AND THE INTRARELATIONSHIPS OF CICHLID FISHES (LABROIDEI, TELEOSTEI). *J. Nat. Hist.* 20(4):949-974. 1986. FR 31(4)
[Dep. Zool., Br. Mus. (Nat. Hist.), Cromwell Rd., London SW7 5BD, England]

86-003719 Gruber, S. H. and J. L. Cohen. VISUAL SYSTEM OF THE WHITE SHARK, *CARCHARODON CARCHARIAS*, WITH EMPHASIS ON RETINAL STRUCTURE. *Mem. South. Calif. Acad. Sci.* 9:61-72. 1985. FR 31(4)
[Rosenstiel Sch. Mar. Atmos. Sci., Univ. Miami, 4600 Rickenbacker Causeway, Miami, FL 38149]

86-003720 Gubanov, E. P. NEW DATA ON THE DOGFISH, *CENTROPHORUS TESSELATUS* (SQUALIDAE), FROM THE INDIAN OCEAN. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(1):155-157. 1986. FR 31(4)
[AzCherNIRO, Kerch, USSR]

86-003721 Hampton, J. A. STRUCTURE OF THE RAINBOW TROUT (*SALMO GAIRDNERI*, RICHARSON) LIVER: A MORPHOMETRIC AND HISTOCHEMICAL STUDY. *Ph.D. dissertation, W. Va. Univ.* 249p. 1985. From Diss. Abst. Int. B. Sci. Eng. 47(1):33. 1986. FR 31(4)

86-003722 Harder, W. POLARIZED LIGHT AS AN AID IN COUNTING FIN RAYS. *Copeia* 1986(3):825-826. 1986. FR 31(4)
[Inst. Biol. III, Zool. II, Univ. Tuebingen, Auf der Morgenstelle 28, D-7400 Tuebingen 1, West Germany]

86-003723 Hart, S.; A. Wrathmell and J. E. Harris. GUT ASSOCIATED LYMPHOID TISSUE IN THE DOGFISH *SCYLIORHINUS CANICULA*: A LIGHT MICROSCOPIC STUDY. *J. Mar. Biol. Assoc. U.K.* 66(3):721-729. 1986. FR 31(4)
[Dep. Biol. Sci., Plymouth Polytech., Drake Circus, Plymouth PL4 8AA, England]

86-003724 Hughes G. M. and N. K. Al-Kadhomiy. GILL MORPHOMETRY OF THE MUDSKIPPER, *BOLEOPHTHALMUS BODDARTI*. *J. Mar. Biol. Assoc. U.K.* 66(3): 671-682. 1986. FR 31(4)
[Res. Unit Comp. Anim Respir., Bristol Univ., Bristol B58 14G, U.K.]

86-003725 Hughes, G. M. and J. S. D. Munshi. SCANNING ELECTRON MICROSCOPY OF THE ACCESSORY RESPIRATORY ORGANS OF THE SNAKE-HEADED FISH, *CHANNA STRIATA* (BLOCH) (CHANNIDAE, CHANNIFORMES). *J. Zool. (Lond.)* 209(3):315-317. 1986. FR 31(4)
[Res. Unit Comp. Anim. Respir., Bristol Univ., Woodland Rd., Bristol B58 1UG, England]

MORPHOLOGY (CONTINUED)

86-003726 Huysseune, A. LATE SKELETAL DEVELOPMENT AT THE ARTICULATION BETWEEN UPPER PHARYNGEAL JAWS AND NEUROCRANIAL BASE IN THE FISH, *ASTATOTILAPIA ELEGANS*, WITH THE PARTICIPATION OF A CHONDROID FORM OF BONE. *Am. J. Anat.* 177(1):119-137. 1986. FR 31(4)
[Lab. Morfol. Syst. Dieren, B-9000 Gent, Belgium]

86-003727 Huysseune, A. THE OPERCULAR CARTILAGE IN *ASTATOTILAPIA ELEGANS*. *Fortschr. Zool.* 30:371-374. 1985. FR 31(4)
[Zool. Morphol. Syst. Lab., State Univ. Ghent, Ledeganckstr. 35, B-9000 Ghent, Belgium]

86-003728 Ito, H.; T. Murakami; T. Fukuoka and R. Kishida. THALAMIC FIBER CONNECTIONS IN A TELEOST (*SEBASTISCUS MARMORATUS*): VISUAL SOMATOSENSORY, OCTAVOLATERAL, AND CEREBELLAR RELAY REGION TO THE TELENCEPHALON. *J. Comp. Neurol.* 250(2):215-227. 1986. FR 31(4)
[Dep. Anat., Osaka Univ. Med. Sch., Nakanoshima, Kitaku, Osaka 530, Japan]

86-003729 Iwata, A. and K. Hamada. A DWARF MALE OF THE ARCTIC LAMPREY, *LETHENTERON JAPONICUM* FROM THE ASSABU RIVER, HOKKAIDO, JAPAN. *Bull. Fac. Fish. Hokkaido Univ.* 37(1):17-22. 1986. In Japanese with English summ. FR 31(4)
[Lab. Ichthyol., The Crown Prince's Palace, Hokkaido, Hakodate, Japan]

86-003730 John, H. C. and D. Karrer. THE LARVAL DEVELOPMENT OF *SCHEDOPHILUS MEDUSOPHAGUS* COCCO 1839 (TELEOSTEI, PERCIFORMES). *Can. Tech. Rep. Fish. Aquatic Sci.* No. 1359. p. 77-82. 1985. FR 31(4)
[Zool. Inst., Zool. Mus. Univ. Hamburg, Martin-Luther-King-Platz 3, 2000 Hamburg 13, West Germany]

86-003731 Johnson, E. Z. and R. G. Werner. SCANNING ELECTRON MICROSCOPY OF THE CHORION OF SELECTED FRESHWATER FISHES. *J. Fish Biol.* 29(2):257-265. 1986. FR 31(4)
[SUNY Coll. Environ. Sci. For., Syracuse, NY 13210]

86-003732 Johnston, C. E. and T. Brantley. DESCRIPTION OF NUPTIAL BREEDING TUBERCLES IN THE PADDLEFISH *POLYODON SPATHULA* (WALBAUM). *J. Ala. Acad. Sci.* 57(3):118. 1986. Abstract only. FR 31(4)
[Dep. Zool., Auburn Univ., Auburn, AL 36849]

86-003733 Jollie, M. A PRIMER OF BONE NAMES FOR THE UNDERSTANDING OF THE ACTINOPTERYGIAN HEAD AND PECTORAL GIRDLE SKELETONS. *Can. J. Zool.* 64(2):365-379. 1986. FR 31(4)
[Biol. Sci., North Ill. Univ., DeKalb, IL 60115]

86-003734 Kamler, E. and T. Kato. YOLK UTILIZATION BY *SALMO GAIRDNERI* IN RELATION TO INCUBATION TEMPERATURE AND EGG SIZE. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2629. 1983. Abstract only. FR 31(4)

86-003735 Karrer, C. DESCRIPTIONS OF EARLY STAGES OF THREE SPECIES OF SPARIDAE (TELEOSTEI, PERCIFORMES) FROM THE NORTHWEST AFRICAN UPWELLING AREAS. APPENDIX: THE SUPPORTING ELEMENTS OF THE DORSAL-FIN OF NORTHEASTERN ATLANTIC SPARIDAE. *Arch. Fischereiwiss.* 35(1-2):53-90. 1984. In German with English summ. FR 31(4)
[Biol. Anst. Helgoland, Hamburg, West Germany]

MORPHOLOGY (CONTINUED)

86-003736 Kawaguchi, K. and H. G. Moser. STOMIATOIDEA: DEVELOPMENT. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 169-181. 1984. FR 31(4)

86-003737 Kilambi, R. V. HETEROGENEITY OF THE SPAWNING POPULATIONS OF SURF SMELT IN THE STATE OF WASHINGTON. *Proc. Ark. Acad. Sci.* 39:59-63. 1985. FR 31(4)
[Dep. Zool., Univ. Ark., Fayetteville 72701]

86-003738 Koldenkova, L.; G. Israel and G. Avila. [DESCRIPTION OF THE EGGS OF *CUBANICHTHYS CUBENSIS* (TELEOSTEI: CYPRINODONTIDAE).] *Misc. Zool.* No. 28. p. 3. 1985. In Spanish. FR 31(4)
[Inst. Nac. Higiene Epidemiol. Microbiol., Minsap, Cuba]

86-003739 Korsgaard, B. TROPHIC ADAPTATIONS DURING EARLY INTRAOVARIAN DEVELOPMENT OF EMBRYOS OF *ZOARCES VIVIPARUS* (L.). *J. Exp. Mar. Biol. Ecol.* 98(1-2):141-152. 1986. FR 31(4)
[Inst. Biol., Odense Univ., 5230 Odense M, Denmark]

86-003740 Kortschal, K.; A. Goldschmid; H. Adam and M. Whitear. THE 1ST DORSAL FIN OF *GAIDROPSARUS MEDITERRANIUS* (TELEOSTEI). A SPECIALIZED CHEMOSENSORY ORGAN. *Fortschr. Zool.* 30:727-730. 1985. FR 31(4)
[Inst. Zool., Univ. Salzburg, Akadstr. 26, A-5020 Salzburg, Austria]

86-003741 Krautgartner, W. D. and K. Kotrschal. EPENDYMAL STRUCTURES IN *ACIPENSER RUTHENUS* (OSTEICHTHYES). *Fortschr. Zool.* 30:623-626. 1985. FR 31(4)

86-003742 Lahti, E. and O. V. Lindqvist. SEASONAL AND AREAL DIFFERENCES IN THE THYROID HISTOLOGY OF THE VENDACE (*COREGONUS ALBULA* L.) IN FRESH AND BRACKISH WATER IN FINLAND. *Arch. Hydrobiol.* 106(4):487-496. 1986. In English with German summ. FR 31(4)
[Dep. Appl. Zool., Univ. Kuopio, P.O.B. 6, SF-70211, Kuopio 21, Finland]

86-003743 Larkin, M. J.; J. R. Oliver and W. M. Howell. BIFLAGELLATED SPERMATOZOA IN CATFISHES (ORDER SILURIFORMES). *J. Ala. Acad. Sci.* 57(3): 110. 1986. Abstract only. FR 31(4)
[Dep. Biol., Samford Univ., Birmingham, AL 35229]

86-003744 Laroche, W. A.; W. F. Smith-Vaniz and S. L. Richardson. CARANGIDAE: DEVELOPMENT. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 510-522. 1984. FR 31(4)

86-003745 Laurent, P. A SURVEY OF THE MORPHO FUNCTIONAL RELATIONSHIPS BETWEEN EPITHELIA, VASCULATURE AND INNERVATION WITHIN THE FISH GILL. *Fortschr. Zool.* 30:339-353. 1985. FR 31(4)
[CNRS, BP 20, Cr F-67037 Strasbourg, France]

86-003746 Leis, J. M. TETRAODONTOIDEI: DEVELOPMENT. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 447-450. 1984. FR 31(4)

86-003747 Liu, H.; K. Shimazaki and S. Mishima. [BIOLOGICAL STUDIES ON UGUIDACE *TRIBOLODON HAKONENSIS* (GUNTHER) IN THE OHNO RIVER, HOKKAIDO, JAPAN--I. EARLY DEVELOPMENT AND CHARACTER OF SCALES DIFFERENT LOCATIONS.]

MORPHOLOGY (CONTINUED)

86-003747 CONTINUED *Bull. Fac. Fish. Hokkaido Univ.* 37(1):23-29. 1986. In Japanese with English summ. FR 31(4)
[Heilongjiang Fish. Res. Inst., Chinese Acad. Fish., Harbin, China]

86-003748 Llewellyn, L. C. SOME OBSERVATIONS ON THE SPAWNING AND DEVELOPMENT OF THE MITCHELLIAN FRESHWATER HARDYHEAD *CRATEROCEPHALUS FLUVIATILIS* MCCULLOCH FROM INLAND WATERS IN NEW SOUTH WALES. *Aust. Zool.* 20(2):269-288. 1979. FR 31(4)

86-003749 Lucena, J. [COMPARATIVE STUDY OF THE BARBEL STOCKS IN THE RESERVOIRS OF BERMEJALES AND CUBILLAS (GRANADA, SPAIN).] *Vie Milieu* 34(2-3):105-108. In French with English summ. FR 31(4)
[Dep. Ecol., Univ. Malaga, Spain]

86-003750 Lyubin, V. P. [HISTOCHEMICAL STUDY OF STEROIDOGENIC TISSUE IN GONADS OF RUSSIAN STURGEONS.] *Tsitologiya* 28(4):448-451. 1986. In Russian with English summ. From. Anim. Breed. Abstr. 54(9):826. 1986. FR 31(4)

86-003751 Maina, J. N. and G. M. O. Maloiy. THE MORPHOLOGY OF THE RESPIRATORY ORGANS OF THE AFRICAN AIR-BREATHING CATFISH *(CLARIAS MOSSAMBICUS)*: A LIGHT ELECTRON AND SCANNING MICROSCOPIC STUDY, WITH MORPHOMETRIC OBSERVATIONS. *J. Zool. (Lond.)* 209(3):421-445. 1986. FR 31(4)
[Dep. Vet. Anat., Univ. Nairobi, P.O. Box 30197, Nairobi, Kenya]

86-003752 Makhotin, V. V.; Y. B. Burykin and G. G. Novikova. WHITE SEA COASTAL COD, *GADUS MORHUA MARISALBI* REPRODUCTION AND DEVELOPMENTAL BIOLOGY. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):43-48. 1986. FR 31(4)
[Biol. Fac., Moscow State Univ., Moscow, USSR]

86-003753 Marliave, J. B. ; S. K. Todd and A. W. A. Baker. LARVAE OF THE MANACLED SCULPIN, *SYNCHIRUS GILLI*, F. COTTIDAE. *Can. Tech. Rep. Fish. Aquatic Sci.* No. 1359. p. 49-54. 1985. FR 31(4)
[Vancouver Publ. Aquarium, P.O. Box 3232, VAncouver, BC V6B 3X8, Canada]

86-003754 McDowall, R. M. SEXUAL DIMORPHISM IN AN AUSTRALIAN GALAXIID (PISCES: GALAXIIDAE). *Aust. Zool.* 19(3):309-314. 1978. FR 31(4)

86-003755 Mendelson, B. DEVELOPMENT OF RETICULOSPINAL NEURONS OF THE ZEBRAFISH. II. EARLY AXONAL OUTGROWTH AND CELL BODY POSITION. *J. Comp. Neurol.* 251(2):172-184. 1986. FR 31(4)
[Inst. Neurosci., Univ. Oreg., Eugene 97403]

86-003756 Minton, A. L.; Osteen, D. V. and D. E. Snyder. DESCRIPTION OF LARVAL PIRATE PERCH, *APHREDODERUS SAYANUS* (GILLIAMS) FROM THE SAVANNAH RIVER. *Can. Tech. Rep. Fish. Aquatic Sci.* No. 1359. p. 21-28. 1985. FR 31(4)
[Environmental and Chemical Sciences, Inc., P.O. Box 1393, Aiken, SC 29801]

86-003757 Mishra, N.; J. Ojha; J. S. Datta Munshi and A. K. Mittal. HISTOCHEMISTRY AND FUNCTIONAL ORGANIZATION OF THE HEART AND AORTAE OF AN OBLIGATORY AIR-BREATHING MUD-EEL, *MONOPTERUS (=AMPHIPNOUS) CUCHIA*

MORPHOLOGY (CONTINUED)

86-003757 CONTINUED (HAM., 1822) (SYNBRANCHIFORMES, AMPHIPNOIDAE). *Arch. Biol.* 89(1):107-121. 1978. FR 31(4)

86-003758 Moser, H. G.; E. H. Ahlstrom and J. R. Paxton. MYCTOPHIDAE: DEVELOPMENT. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 218-239. 1984. FR 31(4)

86-003759 Moser, H. G.; E. M. Sandknop and D. A. Ambrose. LARVAE AND JUVENILES OF AURORA ROCKFISH, *SEBASTES AURORA*, FROM OFF CALIFORNIA AND BAJA CALIFORNIA. *Can. Tech. Rep. Fish. Aquatic Sci.* No. 1359. p. 55-64. 1985. FR 31(4)
[NMFS, P.O. Box 271, La Jolla, CA 92038]

86-003760 Munshi, J. S. D. THE STRUCTURE, FUNCTION AND EVOLUTION OF THE ACCESSORY RESPIRATORY ORGANS OF AIR-BREATHING FISHES OF INDIA. *Fortschr. Zool.* 30:353-366. 1985. FR 31(4)
[Post Grad. Dep. Zool., Bhagalpur Univ., Bhagalpur 812007 Bihar, India]

86-003761 Munshi, J. S. D.; K. R. Olson ; J. Ojha and T. K. Ghosh. MORPHOLOGY AND VASCULAR ANATOMY OF THE ACCESSORY RESPIRATORY ORGANS OF THE AIR-BREATHING CLIMBING PERCH, *ANABAS TESTUDINEUS (BLOCH). Am. J. Anat.* 176(3):321-331. 1986. FR 31(4)
[Dep. Zool., Bhagalpur Univ., Bhagalpur 812007, India]

86-003762 Neave, D. A. THE DEVELOPMENT OF THE LATERAL LINE SYSTEM IN PLAICE (*PLEURONECTES PLATESSA*) AND TURBOT (*SCOPHTHALMUS MAXIMUS*). *J. Mar. Biol. Assoc. U.K.* 66(3):683-693. 1986. FR 31(4)
[Scott. Mar. Biol. Assoc., Dunstaffnage Mar. Res. Lab., P.O. Box 3, Oban Argyll PA34 4AD, Scotland]

86-003763 Nieuwenhuys, R. and J. Meek. CONSTRUCTIONAL PRINCIPLES OF THE BRAIN-STEM IN ANAMNIOTES, WITH EMPHASIS ON ACTINOPTERYGIAN FISHES. *Fortschr. Zool.* 30:515-528. 1985. FR 31(4)
[Dep. Anat., Catholic Univ. Nijmegen, Geert Grooteplein N 21, 6500 Hb Nijmegen, Netherlands]

86-003764 Northcutt, R. G. THE BRAIN AND SENSE ORGANS OF THE EARLIEST VERTEBRATES: RECONSTRUCTION OF A MORPHOTYPE. *IN: R. E. Foreman; A. Gorbman; J. M. Dodd and R. Olsson (eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 81-112. FR 31(4)
[Div. Biol. Sci., Univ. Mich., Ann Arbor]

86-003765 Oguri, M. ON THE YELLOWISH BROWN PIGMENT GRANULES IN THE INTERRENAL CELLS OF ANGLERFISH AND LEOPARD SHARK. *Bull. Jpn. Soc. Sci. Fish.* 52(5):801-804. 1986. FR 31(4)
[Lab. Fish. Biol., Fac. Agric., Nagoya Univ., Nagoya 464, Japan]

86-003766 Okiyama, M. MYCTOPHIFORMES: DEVELOPMENT. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 206-218. 1984. FR 31(4)

MORPHOLOGY (CONTINUED)

86-003767 Orrell, T. M. and W. S. Woolcott. SKELETAL ASSOCIATIONS OF THE MUSCADINE DARTER WITH OTHER *PERCINA* SPECIES OF SUBGENUS *ALVORDIUS*. *Va. J. Sci.* 37(2):70. 1986. Abstract only. FR 31(4)
[Dep. Biol., Univ. Richmond, Richmond, VA 23173]

86-003768 Osse, J. W. M. JAW PROTRUSION, AN OPTIMIZATION OF THE FEEDING APPARATUS OF TELEOSTS. *Acta Biotheor.* 34(2-4):219-232. 1985. FR 31(4)
[Dep. Exp. Anim. Morphol. Cell Biol., Agric. Univ. Wageningen, Zodiac. Marijkeweg 40, 6709 PG Wageningen, Netherlands]

86-003769 Osse, J. W. M.; M. Muller and J. L. Vanleeuwen. THE ANALYSIS OF SUCTION FEEDING IN FISH. *Fortschr. Zool.* 30:217-222. 1985. FR 31(4)
[Dep. Exp. Anim. Morphol. Cell Biol., Marijkeweg 40, 6709 PG Wageningen, Netherlands]

86-003770 Otten, E. PROPORTIONS OF THE JAW MECHANISM OF CICHLID FISHES CHANGES AND THEIR MEANING. *Acta Biotheor.* 34(2-4):207-218. 1985. FR 31(4)
[Dep. Oral. Biol., State Univ. Groningen, Groningen, Netherlands]

86-003771 Paine, M. D. DEVELOPMENTAL ALLOMETRY IN THREE SPECIES OF DARTERS (PERCIDAE: *ETHEOSTOMA*). *Can. J. Zool.* 64(2):347-352. 1986. FR 31(4)
[Ontario Minist. Nat. Resour., Whitney Block, 99 Wellesley St. West, Toronto, ON M7A 1W3, Canada]

86-003772 Peignouxdeville, J.; C. A. Baud; F. Lalier and B. Vidal. PERICHONDRAL OSSIFICATION OF VERTEBRAL ARCHES FROM DOGFISH TO MAN. *Fortschr. Zool.* 30:65-68. 1985. FR 31(4)
[CNRS, Natl. Mus. Nat. Hist., 7 Rue Cuvier, F-75231 Paris 05, France]

86-003773 Pessacgasenjo, T. P. OBSERVATIONS ON THE BLOOD VESSELS OF THE CENTRAL NERVOUS-SYSTEM OF TELEOSTS AND BIRDS. *Fortschr. Zool.* 30:619-622. 1985. FR 31(4)

86-003774 Podosinnikov, A. Y. and V. I. Chevelya. INFORMATION ON THE DEVELOPMENT OF SPECIES OF THE GENUS *TRACHURUS* (CARANGIDAE). *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(1):43-52. 1986. FR 31(4)
[Yrugrybpromrazvedka, Sevastopol, USSR]

86-003775 Podushka, S. B. ON VARIABILITY OF THE SCUTER NUMBER IN STURGEON *ACIPENSER STELLATUS* PALLAS OF THE DON RIVER. *Biol. Nauki (Mosc).* 270:35-38. 1986. In Russian with English summ. FR 31(4)

86-003776 Potthoff, T. CLEARING AND STAINING TECHNIQUES. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 35-37. 1984. FR 31(4)

86-003777 Quaglia, A. [DISTRIBUTION OF CAPILLARIES IN AXIAL MUSCLES OF *MUGIL CEPHALUS*.] *Oebalia* 11(3):867-869. 1985. In Italian with English summ. FR 31(4)
[Ist. Anat. Comp. Univ. di Bologne, Via Belmeloro, 8, 40126 Bologna, Italy]

86-003778 Rahmani, A. R. and S. M. Khan. HISTOLOGY OF THE OLFACTORY EPITHELIUM AND THE ACCESSORY NASAL SACS OF AN ANABANTOID FISH, *ANABAS TESTUDINEUS* (BLOCH). *Arch. Biol.* 91(3):397-411. 1980. FR 31(4)

MORPHOLOGY (CONTINUED)

86-003779 Rashi, W. A MORPHOLOGICAL ANALYSIS OF THE AMPULLAE OF LORENZINI IN SELECTED SKATES (PISCES, RAJOIDEI). *J. Morphol.* 189(3):225-247. 1986. FR 31(4)
[Va. Inst. Mar. Sci., Sch. Mar. Sci., Coll. William and Mary, Gloucester Point, VA 23062]

86-003780 Reif, W. E. MORPHOLOGY AND HYDRODYNAMIC EFFECTS OF THE SCALES OF FAST SWIMMING SHARKS. *Fortschr. Zool.* 30:483-486. 1985. FR 31(4)
[Dep. Geol. Paleontol., Univ. Tubingen, Sigwartstr. 10, D-7400 Tubingen 1, West Germany]

86-003781 Rey Carrasco, I. and R. Alvarez Leon. [FIRST RECORD OF A VERTEBRAL COLUMN ABNORMALITY IN A SHARK CAPTURED IN THE COLOMBIAN CARIBBEAN.] *An. Inst. Invest. Mar. Punta de Betin* 14:105-108. 1984. In Spanish with English summ. FR 31(4)
[Vikingos de Colombia S.A., Apt. 2858, Cartagena (Bol.), Colombia]

86-003782 Richards, W. J. ELOPIFORMES: DEVELOPMENT. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 60-62. 1984. FR 31(4)

86-003783 Riehl, R. and E. Schulte. [SCANNING ELECTRON MICROSCOPICAL INVESTIGATIONS OF THE MICROPYLES OF SELECTED FRESH-WATER TELEOST FISHES.] *Arch. Fischereiwiss.* 28(2-3):95-107. In German with English summ. FR 31(4)

86-003784 Ritchie, D. E., Jr. ANOMALOUS DORSAL FIN OF WHITE PERCH. *Estuaries* 1(1):64-65. 1978. FR 31(4)

86-003785 Rosello, O. O. and L. M. Alegret. [ULTRASTRUCTURE OF THE INTESTINAL MUCOSE OF THE FISH *OREOCHROMIS* SP.] *Cienc. Biol.* No. 14. p. 13-16. 1985. In Spanish with English summ. FR 31(4)
[Fac. Biol., Univ. Habana, Habana, Cuba]

86-003786 Rozdzial, M. M. ANALYSIS OF PIGMENT GRANULE TRANSPORT IN LYSED TELEOST MELANOPHORES. *Ph.D. dissertation, Univ. Calif. (Riverside)* 120p. 1986. From Diss. Abstr. Int. B Sci. Eng. 47(4):1379. 1986. FR 31(4)

86-003787 Ruhle, C. CONTRIBUTION TO THE PROBLEM OF DIFFERENTIATION OF "BLAUFELCHEN" (*COREGONUS LAVARETUS WARTMANNI* L.) AND "GANGFISCH" (*COREGONUS LAVARETUS MACROPHTHALMUS* L.) IN LAKE CONSTANCE. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:283-289. 1986. In English with German summ. FR 31(4)
[Jagd-und Fischereiverwlt. Kantons St. Gallen, Burggraben 26, CH-9001 St. Gallen, Switzerland]

86-003788 Ruple, D. GOBIOIDEI: DEVELOPMENT. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 582-587. 1984. FR 31(4)

86-003789 Sandknop, E. M.; B. Y. Sumida and H. G. Moser. EARLY LIFE HISTORY DESCRIPTIONS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 23-24. 1984. FR 31(4)

MORPHOLOGY (CONTINUED)

86-003790 Senn, D. G. ON VARIATION IN THE BRAIN OF BONY FISHES. *Fortschr. Zool.* 30:607-610. 1985. FR 31(4)
[Inst. Zool., Univ. Basel, Rheinsprung 9, Ch-4051 Basel, Switzerland]

86-003791 Simon, T. P. LARVAL ONTOGENY OF THE CYPRESS DARTER, *ETHEOSTOMA PROELIARE. Can. Tech. Rep. Fish. Aquatic Sci.* No. 1359. p. 29-35. 1985. FR 31(4)
[Dep. Biol. Sci., Univ. Wis., LaCrosse 54601]

86-003792 Sire, J. Y. ONTOGENIC DEVELOPMENT OF SURFACE ORNAMENTATION IN THE SCALES OF *HEMICHROMIS BIMACULATUS* (CICHLIDAE). *J. Fish Biol.* 28(6):713-724. 1986. FR 31(4)
[Lab. Anat. Comp., Univ. Paris 7, 2, Place Jussieu, 75251 Paris Cedex 05, France]

86-003793 Skelton, P. H. ON THE LIFE COLOURS AND NUPTIAL TUBERCLES OF *OREODAIMON QUATHLAMBAE* (BARNED, 1938) (PISCES, CYPRINIDAE). *Ann. Cape Prov. Mus. Nat. Hist.* 9(12):215-222. 1974. FR 31(4)

86-003794 Snyder, D. E. and S. Ochman. THE LARVAE AND JUVENILES OF *COTTUS RICEI* AND SYMPATRIC COTTIDAE. *Can. Tech. Rep. Fish. Aquatic Sci.* No. 1359. p. 37-47. 1985. FR 31(4)
[Larval Fish Lab, Colo. State Univ., Fort Collins 80523]

86-003795 Soin, S. G. and E. A. Kublik. POPULATION SIZE AND ECOLOGICAL-MORPHOLOGICAL CHARACTERISTICS OF JUVENILE WHITE SEA HERRING, *CLUPEA PALLASI MARISALBI* IN ICHTHYOPLANKTON. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):48-55. 1986. FR 31(4)
[Biol. Fac., Moscow State Univ., Moscow, USSR]

86-003796 Stahl-Johnson, K. L. DESCRIPTIVE CHARACTERISTICS OF REARED *SEBASTES CAURINUS* AND *S. AURICULATUS* LARVAE. *Can. Tech. Rep. Fish. Aquatic Sci.* No. 1359. p. 65-76. 1985. FR 31(4)
[NMFS, P.O. Box 1638, Kodiak, AK 99615]

86-003797 Stepien, C. A. REGULATION OF COLOR MORPHIC PATTERNS IN THE GIANT KELPFISH, *HETEROSTICHUS ROSTRATUS* GIRARD: GENETIC VERSUS ENVIRONMENTAL FACTORS. *J. Exp. Mar. Biol. Ecol.* 100(1-3):181-208. 1986. FR 31(4)
[Dep. Ichthyol., Mar. Biol. Div. A-002, Scripps Inst. Oceanogr., Univ. Calif., La Jolla 92092]

86-003798 Strauss, R. E. ALLOMETRY AND FUNCTIONAL FEEDING MORPHOLOGY IN HAPLOCHROMINE CICHLIDS. *IN: A. A. Echelle and I. Kornfield, (eds.). Evolution of Fish Species Flocks. Univ. Me. Orono Press.* 1984. p.217-229. FR 31(4)

86-003799 Strong, M. B.; J. D. Neilson and J. J. Hunt. ABERRANT CRYSTALLIZATION OF POLLOCK *(POLLACHIUS VIRENS)* OTOLITHS. *Can. J. Fish. Aquatic Sci.* 43(7):1457-1463. 1986. In English with French summ. FR 31(4)
[Dep. Fish. Oceans, Biol. Stn., St. Andrews, NB E0G 2X0, Canada]

86-003800 Szczyglinska, A. BIOMETRIC CHARACTERISTIC OF PERCH, *PERCA FLUVIATILIS* (LINNAEUS, 1758) FROM INLAND WATERS OF NORTHERN POLAND. *Acta Acad. Agric. Tech. Olst.* 268:85-97. 1985. In Polish with English and Russian summ. FR 31(4)

MORPHOLOGY (CONTINUED)

86-003801 Tanaka, S. SPINAL NERVES OF THE FEMALE SHARK INNERVATING THE CLOACAL REGION. *Fortschr. Zool.* 30:627-632. 1985. FR 31(4)
[Dep. Anat., Univ. Ryukyus, Uehara 207, Okinawa 90301, Japan]

86-003802 Theisen, B.; E. Zeiske and H. Breucker. FUNCTIONAL MORPHOLOGY OF THE OLFACTORY ORGANS IN THE SPINY DOGFISH (*SQUALUS ACANTHIAS* L.) AND THE SMALL-SPOTTED CATSHARK (*SCYLIORHINUS CANICULA* (L.)). *Acta Zool. (Stockh.)* 67(2):73-86. 1986. FR 31(3)
[Inst. Cell Biol. Anat., Univ. Copenhagen, Denmark]

86-003803 Trewavas, E. THE PHARYNGEAL APOPHYSIS ON THE BASE OF THE SKULL IN CICHLID FISHES. *Neth. J. Zool.* 35(4):716-719. 1985. FR 31(4)
[Br. Mus. (Nat. Hist.), Cromwell Rd., London SW7 5BD, England]

86-003804 Tucker, J. W., Jr. and J. L. Laroche. RADIOGRAPHIC TECHNIQUES IN STUDIES OF YOUNG FISHES. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 37-39. 1984. FR 31(4)

86-003805 Valdes-Gonzalez, A. and R. C. Herron. SEXUAL DIMORPHISM IN UTAH CHUBS (*GILA ATRARIA*). *Proc. Desert Fishes Counc.* 13-15:225-226. 1985. Abstract only. In English and Spanish. FR 31(4)

86-003806 Vigg, S. GILL-RAKER DIFFERENTIATION OF THE TUI CHUB IN REMNANT LAHONTAN WATERS. *Proc. Desert Fishes Counc.* 13-15:313-314. 1985. Abstract only. FR 31(4)

86-003807 Von Bartheld, C. S. and D. L. Meyer. TRACING OF SINGLE FIBERS OF THE NERVUS TERMINALIS IN THE GOLDFISH BRAIN. *Cell Tissue Res.* 245(1):143-158. 1986. FR 31(4)
[Dep. Anat., Sch. Med., Univ. Gottingen, Gottingen, West Germany]

86-003808 Washington, B. B.; H. G. Moser; W. A. Laroche and W. J. Richards. SCORPAENIFORMES: DEVELOPMENT. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 405-428. 1984. FR 31(4)

86-003809 Webb, P. W. and D. Weihs. FUNCTIONAL LOCOMOTOR MORPHOLOGY OF EARLY LIFE HISTORY STAGES OF FISHES. *Trans. Am. Fish. Soc.* 115(1):115-127. 1986. FR 31(4)
[Sch. Nat. Resour., Univ. Mich., Ann Arbor 48109]

86-003810 Wooley, C. M. EVALUATION OF MORPHOMETRIC CHARACTERS USED IN TAXONOMIC SEPARATION OF GULF OF MEXICO STURGEON, *ACIPENSER OXYRHYNCHUS DESOTOI*. *Dev. Environ. Biol. Fishes* 6:97-103. 1985. FR 31(4)
[U.S.FWS c/o Fish, Div., Tidewater Admin., Md. Dep. Nat. Resour., C-2 Tawes Bldg., Annapolis, MD 21401]

86-003811 Yadav, A. N. and B. R. Singh. THE GUT OF AN INTESTINAL AIR-BREATHING FISH, *LEPIDOCEPHALUS GUNTEA* (HAM). *Arch. Biol.* 91(3):413-422. 1980. FR 31(4)

86-003812 Yamaha, E. and H. Onozato. HISTOLOGICAL INVESTIGATION ON THE GONADS OF ARTIFICIALLY INDUCED TRIPLOID CRUCIAN CARP, *CARASSIUS AURATUS*. *Bull. Fac. Fish. Hokkaido Univ.* 36(4):170-176. 1985. FR 31(4)
[Lab. Embryol. Genet., Fac. Fish., Hokkaido Univ., Hakodate 041, Japan]

MORPHOLOGY (CONTINUED)

86-003813 Yeager, B. L. and R. T. Bryant. LARVAE OF THE LONGNOSE GAR, *LEPISOSTEUS OSSEUS*, FROM THE LITTLE RIVER IN TENNESSEE. *J. Tenn. Acad. Sci.* 58(1-2):14-16. 1983. FR 31(4)
[TVA, Norris, TN 37828]

86-003814 Youson, J. H. ORGAN DEVELOPMENT AND SPECIALIZATION IN LAMPREY SPECIES. *IN: R. E. Foreman; A. Gorbman; J. M. Dodd and R. Olsson (eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 141-164. FR 31(4)
[Dep. Zool., Univ. Toronto, Toronto, ON, Canada]

86-003815 Zaccone, G. and A. Licata. HISTOCHEMISTRY AND FINE STRUCTURE OF THE FLAME CONE CELLS IN THE SKIN EPIDERMIS OF THE SEA HORSE FISH *HIPPOCAMPUS RAMULOSUS* LEACH 1814 (TELEOSTEI: SYNGNATHIDAE). *Arch. Biol.* 93(3):249-266. 1982. FR 31(4)
[Inst. Zool. Comp. Anat., Messina Univ., Italy]

86-003816 Zaunreiter, M.; K. Kotrschal; A. Goldschmid and H. Adam. ECOMORPHOLOGY OF THE OPTIC-SYSTEM IN 5 SPECIES OF BLENNIES (TELEOSTEI). *Fortschr. Zool.* 30:731-736. 1985. FR 31(4)
[Inst. Zool., Univ. Salzburg, Akadstr. 26, A-5020 Salzburg, Austria]

PHYSIOLOGY

86-003817 Abad, M. E.; B. Agulleiro and J. H. W. M. Rombout. AN IMMUNOCYTOCHEMICAL AND ULTRASTRUCTURAL STUDY OF THE ENDOCRINE PANCREAS OF *SPARUS AURATUS* L. (TELEOSTEI). *Gen. Comp. Endocrinol.* 64(1):1-12. 1986. FR 31(4)
[Dep. Cytol. Histol., Agric. Univ., Wageningen, Netherlands]

86-003818 Abalmazova, M. G. RESPONSE OF BOTTOM AND PELAGIC FISHES TO ELECTRIC AND MAGNETIC FIELDS IN SEA WATER. *In: The Behavior of Commercial Fishes. VNIRO, Moscow, USSR.* 1985. p. 112-122. In Russian with English summ. Abstract only. FR 31(4)

86-003819 Abe, H.; R. W. Brill and P. W. Hochachka. METABOLISM OF L-HISTIDINE, CARNOSINE, AND ANSERINE IN SKIPJACK TUNA. *Physiol. Zool.* 59(4):439-450. 1986. FR 31(4)
[Lab. Chem., Kyoritsu Women's Univ., Hoachioji, Tokyo 193, Japan]

86-003820 Ablett, R. F.; P. Chawla and S. P. Gould. EVALUATION OF MICROSOMES ISOLATED FROM FRESH AND FROZEN MYOTOMAL TISSUE OF ATLANTIC COD (*GADUS MORHUA*). *Comp. Biochem. Physiol. B Comp. Biochem.* 84(4): 457-463. 1986. FR 31(4)
[Can. Inst. Fish. Technol., Tech. Univ. Nova Scotia, P.O. Box 1000, Halifax, NS B3J 2X4, Canada]

86-003821 Agellon, L. B.; T. T. Chen; R. J. Van Beneden; R. A. Sonstegard; G. F. Wagner and B. A. McKeown. RAINBOW TROUT *(SALMO GAIRDNERI)* GROWTH HORMONE: IN VITRO TRANSLATION OF PITUITARY RNA AND PRODUCT ANALYSIS. *Can. J. Fish. Aquatic Sci.* 43(7):1327-1331. 1986. In English with French summ. FR 31(4)
[T.T. Chen: Dep. Biol., McMaster Univ., Hamilton, ON L8S 4K1, Canada]

PHYSIOLOGY (CONTINUED)

86-003822 Al-Hassan, J. M.; M. Afzal; M. Ali; M. Thomson; T. Fatima; S. Fayad and R. S. Criddle. LIPID COMPOSITION OF THE EPIDERMAL GEL SECRETION FROM THE ARABIAN GULF CATFISH (*ARIUS THALASSINUS* RUPPELL). *Comp. Biochem. Physiol. B Comp. Biochem.* 85(1):41-47. 1986. FR 31(4)
[Biochem. Dep., Fac. Sci., Kuwait Univ., P.O. Box 5969, Kuwait]

86-003823 Al-Hassan, J. M.; M. Thomson; B. Summers and R. S. Criddle. PURIFICATION AND PROPERTIES OF A HEMAGGLUTINATION FACTOR FROM ARABIAN GULF CATFISH (*ARIUS THALASSINUS*) EPIDERMAL SECRETION. *Comp. Biochem. Physiol. B Comp. Biochem.* 85(1):31-39. 1986. FR 31(4)
[Biochem. Dep., Fac. Sci., Kuwait Univ., P.O. Box 5969, Kuwait]

86-003824 Albers, C. GAS-TRANSPORT PROPERTIES OF FISH BLOOD. *IN: R. Gilles (ed.). Circulation, Respiration, and Metabolism: Current Comparative Approaches. Springer-Verlag, Berlin.* p. 82-90. 1985. FR 31(4)
[Inst. Physiol., Univ. Regensburg, D-8400 Regensburg, West Germany]

86-003825 Arsan, O. M.; V. D. Solomatina and V. D. Romanenko. TEMPERATURE ACCLIMATION AND INTRACELLULAR BIOENERGETIC PROCESSES IN CARP. *Hydrobiol. J. (Engl. Transl. Gidrobiol. Zh.)* 20(1):25-29. 1985. FR 31(4)
[Inst. Hydrobiol., Acad. Sci., Uranian SSR, Kiev, USSR]

86-003826 Asano, M. and I. Hanyu. BIOLOGICAL SIGNIFICANCE OF ELECTRORECEPTION FOR A JAPANESE CATFISH. *Bull. Jpn. Soc. Sci. Fish.* 52(5):795-800. 1986. FR 31(4)
[Dep. Fish., Fac. Agric., Univ. Tokyo, Bunkyo, Tokyo 113, Japan]

86-003827 Ash, R. PROTEIN DIGESTION AND ABSORPTION. *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 69-93. FR 31(4)
[Sch. Biol. Sci., Univ. Bradford, Bradford, West Yorkshire, U.K.]

86-003828 Bakker R. ELECTROPHYSIOLOGY OF FISH INTESTINE. *IN: R. Gilles and M. Gillesbaillien (eds.). Transport Processes Iono- and Osmoregulation. Current Comparative Approaches. Springer-Verlag, Berlin.* 1985. p. 240-250. FR 31(4)
[Dep. Anim. Physiol., Univ. Amsterdam, 1098 Sm Amsterdam, Netherlands]

86-003829 Ballantyne, J. S. and T. W. Moon. SOLUTE EFFECTS ON MITOCHONDRIA FROM AN ELASMOBRANCH (*RAJA ERINACEA*) AND A TELEOST (*PSEUDOPLEURONECTES AMERICANUS*). *J. Exp. Zool.* 239(3):319-328. 1986. FR 31(4)
[Huntsman Mar. Lab., St. Andrews, NB E0G 2X0, Canada]

86-003830 Ballintijn, P. and J. W. Juch. *Brain Behav. Evol.* 25(2-3): 99-108. 1984. FR 31(4)
[Dep. Anim. Physiol., Kerklaan 30, 9751 Nn Haren, Netherlands]

86-003831 Baragi, V. and R. T. Lovell. DIGESTIVE ENZYME ACTIVITIES IN STRIPED BASS FROM FIRST FEEDING THROUGH LARVA DEVELOPMENT. *Trans. Am. Fish. Soc.* 115(3):478-484. 1986. FR 31(4)
[Dep. Orthopedic Surgery, Sch. Med., Tufts Univ., Boston, MA 02111]

86-003832 Barber, D. L. and J. E. Mills Westermann. COMPARISON OF THE DNA OF NUCLEI OF RODLET CELLS AND OTHER CELLS IN THE CHUB *SEMOTILUS ATROMACULATUS*: HYBRIDIZATION *IN SITU*. *Can J. Zool.* 64(4):801-804.

PHYSIOLOGY (CONTINUED)

86-003832 CONTINUED 1986. In English with French summ. FR 31(4)
[Dep. Biol., McMaster Univ., Hamilton, ON L8S 4KI, Canada]

86-003833 Barber, D. L. and J. E. Mills Westermann. THE RODLET CELL OF *SEMOTILUS ATROMACULATUS* AND *CATOSTOMUS COMMERSONI* (TELEOSTEI): STUDIES ON ITS IDENTITY USING HISTOCHEMISTRY AND DNASE I - GOLD, RNASE A -GOLD, AND S1 NUCLEASE - GOLD LABELING TECHNIQUES. *Can. J. Zool.* 64(4):805-813. 1986. In English with French summ. FR 31(4)
[Dep. Biol., McMaster Univ., Hamilton, ON L8S 4KI, Canada]

86-003834 Batten, T. F. C. ULTRASTRUCTURAL CHARACTERIZATION OF NEUROSECRETORY FIBRES IMMUNOREACTIVE FOR VASOTOCIN, ISOTOCIN, SOMATOSTATIN, LHRH AND CRF IN THE PITUITARY OF A TELEOST FISH, *POECILIA LATIPINNA*. *Cell Tissue Res.* 244(3):661-672. 1986. FR 31(4)
[Dep. Cardiovascular Stud., The University, Leeds LS2 9JT, U.K.]

86-003835 Beatty, D. D. VISUAL PIGMENTS AND THE LABILE SCOTOPIC VISUAL-SYSTEM OF FISH. *Vision Res.* 24(11):1563-1573. 1984. FR 31(4)
[Dep. Zool., Univ. Alberta, Edmonton, AB T6G 2E9, Canada]

86-003836 Bell, C. C. EFFECTS OF MOTOR COMMANDS ON SENSORY INFLOW, WITH EXAMPLES FROM ELECTRIC FISH. *In: L. Bolis, R. D. Keyness and S. H. P. Madrell, eds. Comparative Physiology of Sensory Systems. Cambridge Univ. Press, 1984.* p.637-646. FR 31(4)
[Inst. Neural Sci., Good Samaritan Hosp. Med. Cent., Portland, OR 97210]

86-003837 Bennett, M. B. and J. C. Rankin. THE EFFECTS OF NEUROHYPOPHYSIAL HORMONES ON THE VASCULAR RESISTANCE OF THE ISOLATED PERFUSED GILL OF THE EUROPEAN EEL *ANGUILLA ANGUILLA* L. *Gen. Comp. Endocrinol.* 64(1):60-66. 1986. FR 31(4)
[Dep. Pure Appl. Zool., The University, Leeds LS2 9JT, West Yorks., U.K.]

86-003838 Bieniarz, K. and D. E. Kime. AUTORADIOGRAPHIC LOCALIZATION OF GONADOTROPHIN RECEPTORS IN OVARIES OF THE COMMON CARP, *CYPRINUS CARPIO* L. *Gen. Comp. Endocrinol.* 64(1):151-156. 1986. FR 31(4)
[Acad. Agric., Dep. Ichthyobiol. Fish., Krakow, Poland]

86-003839 Billard, R. [DIFFERENT METHODS OF REPRODUCTION OF MALE TELEOSTEEN FISH.] *Riv. It. Piscic. Ittiop.* 20(3):77-80. 1985. In French and Italian. FR 31(4)
[Stn. Cent. Physiol. Anim., I.N.R.A., 78350 Jouy en Josas, France]

86-003840 Birks, E. K. and R. D. Ewing. SEASONAL CHANGES IN PINEAL MELATONIN CONTENT AND HYDROXYINDOLE-*O*-METHYLTRANSFERASE ACTIVITY IN JUVENILE CHINOOK SALMON, *ONCORHYNCHUS TSHAWYTSCHA*. *Gen. Comp. Endocrinol.* 64(1):91-98. 1986. FR 31(4)
[Dep. Vet. Med., Oreg. State Univ., Corvallis 97331]

86-003841 Birt, T. P. and N. M. Green. PARR-SMOLT TRANSFORMATION IN FEMALE AND SEXUALLY MATURE MALE ANADROMOUS AND NONANADROMOUS ATLANTIC SALMON, *SALMO SALAR*. *Can. J. Fish. Aquatic Sci.* 43(3):680-686. 1986. In English

PHYSIOLOGY (CONTINUED)

86-003841 CONTINUED with French summ. FR 31(4)
[Dep. Biol., Memorial Univ. Newfoundland, St. John's, NF A1B 3X9, Canada]

86-003842 Bizri, M.; J. F. Bouhours; Y. Bizri and R. Got. SEPARATION AND QUANTITATIVE DETERMINATION OF DOLICHOL AND DOLICHYL PHOSPHATE IN RAT AND TROUT LIVER. *Comp. Biochem. Physiol. B Comp. Biochem.* 84(4):565-569. 1986. FR 31(4)
[Lab. Biochem. Membranes LBTM-CNRS, 69622 Villeurbanne Cedex, France]

86-003843 Brown, G. W., Jr. and S. G. Brown. ON UREA FORMATION IN PRIMITIVE FISHES. *IN: R. E. Foreman; A. Gorbman; J. M. Dodd and R. Olsson (eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 321-337. FR 31(4)
[Sch. Fish., Univ. Wash., Seattle]

86-003844 Burggren, W.; K. Johansen and B. McMahon. RESPIRATION IN PHYLETICALLY ANCIENT FISHES. *IN: R. E. Foreman; A. Gorbman; J. M. Dodd and R. Olsson (eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 217-252. FR 31(4)
[Dep. Zool., Univ. Mass., Amherst]

86-003845 Burlakov, A. B. and N. I. Kulikova. [ON THE CONTENT OF GONODOTROPIC HORMONE IN SERUM OF GOLDEN GREY MULLET *LIZA AURATA* (RISSIO) AT DIFFERENT STAGES OF SEXUAL CYCLE.] *Biol. Mauki (Mosc.)* 270:51-56. 1986. In Russian with English summ. FR 31(4)

86-003846 Cameron, J. N. RESPONSES TO REVERSED NH_3 and NH_4^+ GRADIENTS IN A TELEOST (*ICTALURUS PUNCTATUS*), AN ELASMOBRANCH (*RAJA ERINACEA*), AND A CRUSTACEAN (*CALLINECTES SAPIDUS*): EVIDENCE FOR NH_4^+/H^+ EXCHANGE IN THE TELEOST AND THE ELASMOBRANCH. *J. Exp. Zool.* 293(2):183-195. 1986. FR 31(4)
[Dep. Zool., Univ. Tex. Mar. Sci. Inst., Port Aransas 78373]

86-003847 Cameron, J. N. and N. Heister. AMMONIA TRANSFER ACROSS FISH GILLS. A REVIEW. *IN: R. Gilles (ed.). Circulation, Respiration, and Metabolism: Current Comparative Approaches. Springer-Verlag, Berlin.* p. 91-100. 1985. FR 31(4)
[Dep. Zool., Univ. Tex., Port Aransas 78373]

86-003848 Caple, G.; W. L. Kerr; T. S. Burcham; D. T. Osuga; Y. Yeh and R. E. Feeney. SUPERADDITIVE EFFECTS IN MIXTURES OF FISH ANTIFREEZE GLYCOPROTEINS AND POLYALCHOHOLS OR SURFACTANTS. *J. Colloid Interface Sci.* 111(2): 299-304. 1986. FR 31(4)
[Dep. Food Sci. Technol., Univ. Calif., Davis 95616]

86-003849 Carey, F. G.; J. G. Casey; H. L. Pratt; D. Urquhart and J. E. McCosker. TEMPERATURE, HEAT PRODUCTION AND HEAT EXCHANGE IN LAMNID SHARKS. *Mem. South. Calif. Acad. Sci.* 9:92-108. 1985. FR 31(4)
[Woods Hole Oceanogr. Inst., Wood Hole, MA 02543]

PHYSIOLOGY (CONTINUED)

86-003850 Carrillo, M.; S. Zanuy; R. Montoro and F. Ollevier. DAILY PATTERNS OF BLOOD ELECTROLYTES IN SEA BASS ADAPTED TO DIFFERENT OSMOTIC MEDIA AT DIFFERENT TIMES OF THE YEAR. *J. Interdisciplinary Cycle Res.* 17(1):69-80. 1986. FR 31(4)
[Inst. Acuicult. Torre de la Sal, Ribera de Cabanes, Castellon, Spain]

86-003851 Cassano, G.; S. Vilella; M. Grasso and C. Storelli. [AMINO ACIDS AND SUGAR ABSORPTION IN *ANGUILLA ANGUILLA* INTESTINE.] *Oebalia* 11(1): 59-68. 1985. In Italian with English summ. FR 31(4)
[Lab. Fisiol. Gen., Univ. Stud. Lecce, Strada Prov. Monteroni, 73100 Lecce, Italy]

86-003852 Cattani, O.; E. Carpene; G. Isani and P. Cortesi. [CARBOHYDRATE METABOLISM IN CULTURED FED SEA BASS.] *Oebalia* 11(1):73-84. 1985. In Italian with English summ. FR 31(4)
[Ist. Biochem., Fac. Med. Vet., Univ. Bologna, Italy]

86-003853 Choi, J., et al. COMPARATIVE STUDY ON AMINO ACID PROFILES OF WILD AND CULTURED CARP, AND ISRAELI CARP. *Bull Korean Fish. Soc.* 18(6):545-549. 1985. From Korean Sci. Abstr. 18(1):44. 1986. In Korean. FR 31(4)

86-003854 Choubert, G. [THE PIGMENTATION OF SALMONIDS.] *Riv. It. Piscic. Ittiop.* 21(1):6, 9-12, 15-19. 1986. In French and Italian. FR 31(4)
[Lab. Nutr. Poissons, Stn. Hydrobiol., NRA, St. Pee-sur-Nivelle, 64310 Ascain, France]

86-003855 Clark, J.; N. L. Macdonald and J. R. Stark. DEVELOPMENT OF PROTEASES AND AN EXAMINATION OF PROCEDURES FOR ANALYSIS OF ELASTASE ACTIVITY IN DOVER SOLE (*SOLEA SOLEA* L.). *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 217-221. FR 31(4)
[Dep. Brewing Biol. Sci., Heriot-Watt Univ., Chambers St., Edinburgh, UK]

86-003856 Clem, L. W.; R. C. Sizemore; C. F. Ellsaisser and N. W. Miller. MONOCYTES AS ACCESSORY CELLS IN FISH IMMUNE RESPONSES. *Dev. Comp. Immunol.* 9(4):803-810. 1985. FR 31(4)

86-003857 Conover, D. O. and M. H. Fleisher. TEMPERATURE-SENSITIVE PERIOD OF SEX DETERMINATION IN THE ATLANTIC SILVERSIDE, *MENIDIA MENIDIA*. *Can. J. Fish. Aquatic Sci.* 43(3)514-520. 1986. In English with French summ. FR 31(4)
[Mar. Sci. Res. Cent., State Univ. N.Y., Stoney Brook 11794]

86-003858 Conroy, D. A. and G. Conroy. OBSERVATIONS ON THE HAEMATOLOGY OF THE MOUNTAIN MULLET, *AGONOSTOMUS MONTICOLA* (BANCROFT, 1836) IN VENEZUELA. *Riv. It. Piscic. Ittiop.* 20(3):98-99. 1985. In English with Italian summ. FR 31(4)
[Sec. Ictiopatol., Fac. Ciens. Vet., Univ. Cent. Venezuela, Maracay, Venezuela]

86-003859 Coppes, Z. ISOZYMES OF GLUCOSEPHOSPHATE ISOMERASE (PGI) IN FISHES OF THE SUBCLASS ACTINOPTERYGII. *Comp. Biochem. Physiol. B Comp. Biochem.* 84(4):575-588. 1986. FR 31(4)

PHYSIOLOGY (CONTINUED)

86-003859 CONTINUED
[Dep. Bioquim. Biofis., Fac. Hum. Cience., Univ. Rebublica, Tristan Narvaja 1674, Montevideo, Uruguay]

86-003860 Corti, A.; S. Astancolle; P. Davalli; G. Piccinini; A. Casti and R. Viviani. [POLYAMINES AND ENZYMES OF THEIR BIO-SYNTHESIS IN *DICENTRARCHUS LABRAX*.] *Oebalia* 11(1):85-92. 1985. In Italian with English summ. FR 31(4)
[Ist. Chim. Biol, Univ. Modena, Italy]

86-003861 Cunjak, R. A. and G. Power. SEASONAL CHANGES IN THE PHYSIOLOGY OF BROOK TROUT, *SALVELINUS FONTINALIS* (MITCHILL), IN A SUB-ARCTIC RIVER SYSTEM. *J. Fish Biol.* 29(3):279-288. 1986. FR 31(4)
[Dep. Biol., Univ. Waterloo, Waterloo, ON N2L 3G1, Canada]

86-003862 Cunningham, G. L. and B. J. Shuter. INTERACTION OF LOW PH AND STARVATION ON BODY WEIGHT AND COMPOSITION OF YOUNG-OF-YEAR SMALLMOUTH BASS (*MICROPTERUS DOLOMIEUI*). *Can. J. Fish. Aquatic Sci.* 43(4):869-876. 1986. In English with French summ. FR 31(4)
[Dep. Zool, Univ. Toronto, Toronto, ON M5S 1A1, Canada]

86-003863 Dabrowski, K. ENERGY UTILIZATION DURING SWIMMING, AND COST OF LOCOMOTION IN LARVAL AND JUVENILE FISH. *J. Appl. Ichthyol.* 2(3):110-117. 1986. In English with French and German summ. FR 31(4)
[Lab. Nutr. Poissons, Saint-Pee-sur-Nivelle, France]

86-003864 Dabrowski, K.; S. J. Kaushik and P. Bergot. ACTIVE METABOLISM IN YOUNG COREGONIDS: A NEW APPROACH INVOLVING OXYGEN CONSUMPTION AND AMMONIA EXCRETION. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:151-159. 1986. FR 31(4)
[INRA, Lab. Nutr. Poissons, B.P.3 Saint-pee-sur-Nivelle, F-64310 Ascain, France]

86-003865 De Leeuw. R.; H. J. T. Goos and P. G. W. J. Van Oordt. THE DOPAMINERGIC INHIBITION OF THE GONADOTROPIN-RELEASING HORMONE-INDUCED GONADOTROPIN RELEASE: AN IN VITRO STUDY WITH FRAGMENTS AND CELL SUSPENSIONS FROM PITUITARIES OF THE AFRICAN CATFISH, *CLARIAS GARIEPINUS* (BURCHELL). *Gen. Comp. Endocrinol.* 63(2):171-177. 1986. FR 31(4)
[Zool. Lab., Univ. Utrecht, Padualaan 8, 3584 CH Utrecht, Netherlands]

86-003866 De Silva, C. D.; S. Premawansa and C. N. Keembiyahetty. OXYGEN CONSUMPTION IN *OREOCHROMIS NILOTICUS* (L.) IN RELATION TO DEVELOPMENT, SALINITY, TEMPERATURE AND TIME OF DAY. *J. Fish Biol.* 29(2):267-277. 1986. FR 31(4)
[Dep. Zool., Univ. Ruhuna, Matara, Sri Lanka]

86-003867 Degani, G.; H. Hahamu and D. Levanon. THE RELATIONSHIP OF EEL *ANGUILLA ANGUILLA* (L.) BODY SIZE, LIPID, PROTEIN, GLUCOSE, ASH, MOISTURE COMPOSITION AND ENZYME ACTIVITY (ALDOLASE). *Comp. Biochem. Physiol. A Comp. Physiol.* 84(4):739-745. 1986. FR 31(4)
[MIGAL, Galilee Technol. Cent., Kiryat Shmona, 10200, Israel]

PHYSIOLOGY (CONTINUED)

86-003868 Dehn, P. F. and V. R. Schirf. ENERGY METABOLISM IN LARGEMOUTH BASS *(MICROPTERUS FLORIDANUS SALMOIDES)* FROM STRESSED AND NON-STRESSED ENVIRONMENTS: ADAPTATIONS IN THE SECONDARY STRESS RESPONSE. *Comp. Biochem. Physiol. A Comp. Physiol.* 84(3):523-528. 1986. FR 31(4)
[Div. Life Sci., Univ. Tex., San Antonio 78285]

86-003869 Dickson, K. A. and J. B. Graham. ADAPTATIONS TO HYPOXIC ENVIRONMENTS IN THE ERYTHRINID FISH *HOPLIAS MICROLEPIS*. *Environ. Biol. Fishes.* 15(4):301-308. 1986. FR 31(4)
[Dep. Biol., Bucknell Univ., Lewisburg, PA 17837]

86-003870 Dodd, J. M. and M. H. I. Dodd. EVOLUTIONARY ASPECTS OF REPRODUCTION IN CYCLOSTOMES AND CARTILAGINOUS FISHES. *IN: R. E. Foreman; A. Gorbman; J. M. Dodd and R. Olsson (eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 295-319. FR 31(4)
[Sch. Anim. Biol., Univ. Coll. North Wales, Bangor, Gwynedd, UK]

86-003871 Dundas, I. E. D. FATE AND POSSIBLE EFFECTS OF EXCESSIVE SPERM RELEASED DURING SPAWNING. *Mar. Ecol. Prog. Ser.* 30(2-3):287-290. 1986. FR 31(4)
[Dep. Microbiol. Plant Physiol., Univ. Bergen, Allegaten 70, N-5000 Bergen, Norway]

86-003872 Dunn, J. F. METABOLIC ADJUSTMENTS TO ACUTE HYPOXIA IN THE AFRICAN LUNGFISH AND RAINBOW TROUT. *Ph.D. dissertation, Univ. British Columbia* 1985. From Diss. Abstr. Int. B Sci. Eng. 47(4):1448. 1986. FR 31(4)

86-003873 Dye, H. M.; J. P. Sumpter; U. H. M. Fagerlund and E. M. Donaldson. CHANGES IN REPRODUCTIVE PARAMETERS DURING THE SPAWNING MIGRATION OF PINK SALMON, *ONCORHYNCHUS GORBUSCHA* (WALBAUM). *J. Fish Biol.* 29(2):167-176. 1986. FR 31(4)
[Dep. Fish. Oceans, 4160 Marine Dr., West Vancouver, BC V7V 1N6, Canada]

86-003874 Eales, J. G.; M. Ranson; S. Shostak and D. Primeau. EFFECTS OF CATECHOLAMINES ON PLASMA THYROID HORMONE LEVELS IN ARCTIC CHARR, *SALVELINUS ALPINUS*. *Gen. Comp. Endocrinol.* 63(3):393-399. 1986. FR 31(4)
[Dep. Zool., Univ. Manitoba, Winnipeg, MB R3T 2N2, Canada]

86-003875 Emdin, S. O.; D. F. Steiner; S. J. Chan and S. Falkmer. HAGFISH INSULIN: EVOLUTION OF INSULIN. *IN: R. E. Foreman; A. Gorbman; J. M. Dodd and R. Olsson (eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 363-378. FR 31(4)
[Dep. Surgery, Univ. Umea, Umea, Sweden]

86-003876 Emery, S. H. HEMATOLOGICAL COMPARISONS OF ENDOTHERMIC VS. ECTOTHERMIC ELASMOBRANCH FISHES. *Copeia* 1986(3):700-705. 1986. FR 31(4)
[West Coast Reg. Water Supply Auth., 2535 Landmark Dr., Suite 211, Clearwater, FL 33519]

86-003877 Falk-Petersen, S.; I. Falk-Petersen and J. R. Sargent. STRUCTURE AND FUNCTION OF AN UNUSUAL LIPID STORAGE ORGAN IN THE ARCTIC FISH *LUMPENUS MACULATUS* FRIES. *N.Z. J. Mar. Freshwater Res.* 20(2):1-6. 1986. FR 31(4)
[Inst. Fish., P.O. Box 3083 Guleng, Univ. Tromso, N-9001 Tromso, Norway]

PHYSIOLOGY (CONTINUED)

86-003878 Fange, R. REGULATION OF BLOOD AND BODY FLUIDS IN PRIMITIVE FISH GROUPS. *IN: R. E. Foreman; A. Gorbman; J. M. Dodd and R. Olsson (eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 253-273. FR 31(4)
[Dep. Zoophysiol., PB 25059, S-40031 Goteborg, Sweden]

86-003879 Farrell, A. P. and M. S. Graham. EFFECTS OF ADRENERGIC DRUGS ON THE CORONARY CIRCULATION OF ATLANTIC SALMON *(SALMO SALAR). Can. J. Zool.* 64(2):481-484. 1986. FR 31(4)
[Huntsman Mar. Lab., St. Andrews, NB E0G 2X0, Canada]

86-003880 Farrell, T. CARDIOVASCULAR AND HEMODYNAMIC ENERGETICS OF FISHES. *IN: R. Gilles (ed.). Circulation, Respiration, and Metabolism: Current Comparative Approaches. Springer-Verlag, Berlin.* p. 377-385. 1985. FR 31(4)
[Dep. Biol. Sci., Simon Fraser Univ., Burnaby, BC V5A 1S6, Canada]

86-003881 Fauconneau, B. PROTEIN SYNTHESIS AND PROTEIN DEPOSITION IN FISH. *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 17-45. FR 31(4)
[Lab. Nutr. Elevage Poissons, INRA, St. Pee-sur-Nivelle, 64310 Ascain, France]

86-003882 Fauconneau, B.; P. Aguirre and P. Bergot. PROTEIN SYNTHESIS IN EARLY LIFE OF COREGONIDS: INFLUENCE OF TEMPERATURE AND FEEDING. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:171-188. 1986. FR 31(4)
[INRA, Lab. Nutr. Poissons, B.P.3 Saint-Pee-sur-Nivelle, F-64310 Ascain, France]

86-003883 Fischer, E. A. SEXUAL ALLOCATION IN A SIMULTANEOUSLY HERMAPHRODITIC CORAL REEF FISH. *Am. Nat.* 117(1):64-82. 1981. FR 31(4)

86-003884 Fischer, Z. CHANGES IN NITROGEN COMPOUNDS IN FISH AND THEIR ECOLOGICAL CONSEQUENCES. *In: J. A. Lee, S. McNeill, and I. H. Borison, eds. Nitrogen as an Ecological Factor. Blackwell Scientific Publ.* 1983. p. 369-379. FR 31(4)
[Inst. Ecol., Polish Acad. Sci., Dziekanow Lesny, Poland]

86-003885 Fischer, Z. CHANGES IN NITROGEN COMPOUNDS IN FISH AND THEIR ECOLOGICAL CONSEQUENCES. *IN: J. A. Lee, S. McNeill and I. H. Roisan,(eds.). Nitrogen as an Ecological Factor: 22nd Symp. Br. Ecol. Soc., Oxford, 1981.* p.369-379. 1983. FR 31(4)
[Inst. Ecol., Pol. Acad. Sci., Dziekanow Lesny, Poland]

86-003886 Fontaine, Y. A. HORMONAL PEPTIDE EVOLUTION. *IN: R. E. Foreman; A. Gorbman; J. M. Dodd and R. Olsson (eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 413-432. FR 31(4)
[Lab. Endocrinol. Comp., Assoc. C.N.R.S., Paris, France]

86-003887 Formicki, K. THE EFFECT OF MAGNETIC FIELD ON RESISTANCE OF EGG MEMBRANES IN SOME SALMONID FISH. *Pol. Arch. Hydrobiol.* 33(1):105-114. 1986. FR 31(4)

PHYSIOLOGY (CONTINUED)

86-003887 CONTINUED
[Inst. Ichthyol., Agric. Acad., Kasimierza Krolewicza 4, 71-550 Szczecin, Poland]

86-003888 Fostier, A. and B. Jalabert. DEVELOPMENT OF A SENSITIVE BIOLOGICAL ASSAY FOR MEASURING PITUITARY GONADOTROPIC ACTIVITIES. *IN: G. Barnabe and R. Billard, (eds.). L' aquaculture du Bar et des Sparides. I.N.R. A. Publ., Paris.* 1984. p. 25-31. In French with English, Spanish and Italian summ. FR 31(4)
[INRA, Lab. Physiol. Poissons, Campus de Beaulieu, F 35042 Rennes Cedex France]

86-003889 Freidberg, G.; K. Lindahl and B. Ekengren. THE THYROTROPIC CELL IN THE ATLANTIC SALMON, SALMO SALAR. *Acta. Zool. (Stockh.)* 62(1): 43-51. 1981. FR 31(4)

86-003890 Fukayama, S. and H. Takahashi. CHANGES IN SERUM LEVELS OF EXTRADIOL-17 β AND TESTOSTERONE IN THE JAPANESE RIVER LAMPREY, *LAMPETRA JAPONICA*, IN THE COURSE OF SEXUAL MATURATION. *Bull Fac. Fish. Hakkaido Univ.* 36(4):161-169. 1985. FR 31(4)
[Dep. Biol. Sci., Tokyo Inst., Kaken Pharmaceut. Co., Ltd., Honkomagome 2-28-8 Bunkyo-ku, Tokyo, Japan]

86-003891 Fukuda, M.; H. Nakano and K. Yamamoto. [BIOCHEMICAL CHANGES IN PACIFIC HERRING DURING EARLY DEVELOPMENTAL STAGES.] *Bull. Fac. Fish. Hokkaido Univ.* 37(1):30-37. 1986. In Japanese with English summ. FR 31(4)
[Res. Inst. North Pac. Fish., Fac. Fish., Hokkaido Univ., Hakodate, Hokkaido, Japan]

86-003892 Galli, L. and J. Gadda. HAEMATOLOGICAL STUDIES OF THE BLACK CATFISH (*RHAMDIA SAPO* VAL., 1840) IN URUGUAY. *Riv. Ital. Piscic. Ittiop.* 21(2):75-76. 1986. In English with Italian summ. FR 31(4)
[Dep. Acuicult., Inst. Nac. Pesca, Montevideo, Uruguay]

86-003893 Gandzyura, V. P. BODY NITROGEN CONTENT OF FISH FROM DNIEPER RESERVOIRS. *Hydrobiol. J. (Engl. Transl. Gidrobiol. Zh.)* 22(2):107-109. 1986. FR 31(4)
[Kiev Univ., Kiev, USSR]

86-003894 Gatz, A. J., Jr.; J. M. Loar and G. F. Cada. EFFECTS OF REPEATED ELECTROSHOCKING ON INSTANTANEOUS GROWTH OF TROUT. *N. Am. J. Fish. Manage.* 6(2):176-182. 1986. FR 31(4)
[Dep. Zool., Ohio Wesleyan Univ., Delaware, OH 43015]

86-003895 Gauldie, R. W. VATERITE OTOLITHS FROM CHINOOK SALMON *(ONCORHYNCHUS TSHAWYTSCHA). N.Z. J. Mar. Freshwater Res.* 20(2):209-217. 1986. FR 31(4)
[Fish. Res. Cent., Minist. Agric. Fish., P.O. Box 297, Wellington, New Zealand]

86-003896 Gauldie, R. W.; D. A. Fournier and D. E. Dunlop. ATOMIC EMISSION AND PROTON MICROPROBE STUDIES OF THE ION CONTENT OF OTOLITHS OF CHINOOK SALMON AIMED AT RECOVERING THE TEMPERATURE LIFE HISTORY OF INDIVIDUALS. *Comp. Biochem. Physiol. A Comp. Physiol.* 84(4):607-615. 1986. FR 31(4)
[Fish. Res. Cent. , P.O. BOX 297, Wellington, New Zealand]

PHYSIOLOGY (CONTINUED)

86-003897 Georgopoulou, U.; M. F. Sire and J. M. Vernier. IMMUNOLOGICAL DEMONSTRATION OF INTESTINAL ABSORPTION AND DIGESTION OF PROTEIN MACROMOLECULES IN THE TROUT *(SALMO GAIRDNERI). Cell Tissue Res.* 245(2):387-395. 1986. FR 31(4)
[Groupe Cytophysiol. Nutr. Poissons, Univ. Paris-Sud, Orsay, France]

86-003898 Gesser, H. EFFECTS OF HYPOXIA AND ACIDOSIS ON FISH HEART PERFORMANCE. *IN: R. Gilles (ed.). Circulation, Respiration, and Metabolism: Current Comparative Approaches. Springer-Verlag, Berlin.* p. 402-413. 1985. FR 31(4)
[Dep. Zoophysiol., Aarhus Univ., DK-8000 Aarhus C, Denmark]

86-003899 Gonzalez-Villasenor, L. I. and D. A. Powers. A MULTILOCUS SYSTEM FOR STUDYING TISSUE AND SUBCELLULAR SPECIALIZATION. *J. Biol. Chem.* 261(25):11471-11477. 1986. FR 31(4)
[McCollum-Pratt Inst., Johns Hopkins Univ., Baltimore, MD 21218]

86-003900 Goos, H. J. T.; R. De Leeuw; E. Burzawa-Gerard; M. Terlou and C. J. J. Richter. PURIFICATION OF GONADOTROPIC HORMONE FROM THE PITUITARY OF THE AFRICAN CATFISH, *CLARIAS GARIEPINUS* (BURCHELL), AND THE DEVELOPMENT OF A HOMOLOGOUS RADIOIMMUNOASSAY. *Gen. Comp. Endocrinol.* 63(2):162-170. 1986. FR 31(4)
[Zool. Lab., Univ. Utrecht, Padualaan 8, 3584 CH Utrecht, Netherlands]

86-003901 Goos, H. J. T.; R. De Leeuw; H. Cook and P. G. W. J. Van Oordt. GONADOTROPIC HORMONE-RELEASING HORMONE (GnRH) BIOACTIVITY IN THE BRAIN OF THE IMMATURE RAINBOW TROUT, *SALMO GAIRDNERI*: THE EFFECT OF TESTOSTERONE. *Gen. Comp. Endocrinol.* 64(1):80-84. 1986. FR 31(4)
[Zool. Lab., Res. Group Comp. Endocrinol., State Univ. Utrecht, Padualaan 8, Netherlands]

86-003902 Govoni, J. J.; G. W. Boehlert and Y. Watanabe. THE PHYSIOLOGY OF DIGESTION IN FISH LARVAE. *Environ. Biol. Fishes* 16(1-3):59-77. 1986. FR 31(4)
[NMFS, Beaufort Lab., Beaufort, NC 28516]

86-003903 Graham, M. S. and G. L. Fletcher. HIGH CONCENTRATIONS OF METHEMOGLOBIN IN FIVE SPECIES OF TEMPERATE MARINE TELEOSTS. *J. Exp. Zool.* 239(1):139-142. 1986. FR 31(4)
[Mar. Sci. Res. Lab., Memorial Univ. Newfoundland, St. John', NF AIC 5S7, Canada]

86-003904 Grau, H. J. and J. Bastian. NEURAL CORRELATES OF NOVELTY DETECTION IN PULSE-TYPE WEAKLY ELECTRIC FISH. *J. Comp. Physiol. A Sens. Neural Behav. Physiol.* 159(2):191-200. 1986. FR 31(4)
[J. Bastian: Dep. Zool., Univ. Okla., Norman 73019]

86-003905 Greger, R. and E. Schlatter. CAMP INCREASES THE APICAL Cl CONDUCTANCE IN THE RECTAL GLAND OF *SQUALUS-ACANTHIAS. IN: R. Gilles and M. Gillesbaillien (eds.). Transport Processes Iono- and Osmoregulation. Current Comparative Approaches. Springer-Verlag, Berlin.* 1985. p. 9-13. FR 31(4)
[Max Planck Inst. Biophys., D-6000 Frankfurt, West Germany]

PHYSIOLOGY (CONTINUED)

86-003906 Griffith, R. W. HABITAT, PHYLOGENY AND THE EVOLUTION OF OSMOREGULATORY STRATEGIES IN PRIMITIVE FISHES. *IN: R. E. Foreman; A. Gorbman; J. M. Dodd and R. Olsson (eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 69-80. FR 31(4)
[Dep. Biol., Southeast. Mass. Univ., North Dartmouth, MA 02747]

86-003907 Gutierrez, J.; J. Fernandez; J. Blasco; J. M. Gesse and J. Planas. PLASMA GLUCAGON LEVELS IN DIFFERENT SPECIES OF FISH. *Gen. Comp. Endocrinol.* 63(3):328-333. 1986. FR 31(4)
[Dep. Fisiol. Anim., Fac. Biol., Univ. Barcelona, Av. Diagonal 645, 08028 Barcelona, Spain]

86-003908 Harris, R. K.; T. Nishiyama and A. J. Paul. CARBON, NITROGEN AND CALORIC CONTENT OF EGGS, LARVAE, AND JUVENILES OF THE WALLEYE POLLOCK, *THERAGRA CHALCOGRAMMA. J. Fish Biol.* 29(1):87-98. 1986. FR 31(4)
[Inst. Mar. Sci., Univ. Alaska, Fairbanks, AK 99701]

86-003909 Hasegawa, S.; T. Hirano and H. Kawauchi. SODIUM-RETAINING ACTIVITY OF CHUM SALMON PROLACTIN IN SOME EURYHALINE TELEOSTS. *Gen. Comp. Endocrinol.* 63(2):309-317. 1986. FR 31(4)
[Ocean Res. Inst., Univ. Tokyo, Nakano, Tokyo 164, Japan]

86-003910 Hata, K.; K. Fujimoto and T. Kaneda. ABSORPTION OF LIPID HYDROPEROXIDES IN CARP. *Bull. Jpn. Soc. Sci. Fish.* 52(4):677-684. 1986. FR 31(4)
[Cent. Res. Lab. Nippon Suisan Kaisha Ltd., Kitanomachi, Hachioji, Tokyo 192, Japan]

86-003911 Hayden, B. J. and D. C. Laux. CELL-MEDIATED LYSIS OF MURINE TARGET CELLS BY NONIMMUNE SALMONID LYMPHOID PREPARATIONS. *Dev. Comp. Immunol.* 9(4):627-640. 1985. FR 31(4)

86-003912 Hayes, M. E.; D. F. Guilland-Cumming; R. G. G. Russell and I. W. Henderson. METABOLISM OF 25-HYDROXYCHOLECALCIFERON IN A TELEOST FISH, THE RAINBOW TROUT *(SALMO GAIRDNERI). Gen. Comp. Endocrinol.* 64(1):143-150. 1986. FR 31(4)
[Dep. Med., Med. Sch., Univ. Manchester, Stopford Bldg., Manchester M13 9PT, England]

86-003913 Hazel, J. R. and E. Zerba. ADAPTATION OF BIOLOGICAL MEMBRANES TO TEMPERATURE: MOLECULAR SPECIES COMPOSITIONS OF PHOSPHATIDYLCHOLINE AND PHOSPHATIDYLETHANOLAMINE IN MITOCHONDRIAL AND MICROSOMAL MEMBRANES OF LIVER FROM THERMALLY-ACCLIMATED RAINBOW TROUT. *J. Comp. Physiol. B Biochem. Syst. Environ. Physiol.* 156(5):665-674. 1986. FR 31(4)
[Dep. Zool., Ariz. State Univ., Tempe 85287]

86-003914 Hehse, P. H. and W. S. Davidson. EVOLUTIONARY RELATIONSHIP OF A FISH C TYPE LACTATE DEHYDROGENASE TO OTHER VERTEBRATE LACTATE DEHYDROGENASE ISOZYMES. *Can. J. Fish. Aquatic Sci.* 43(5):1045-1051. 1986. In English with French summ. FR 31(4)
[W. S. Davidson: Dep. Biochem., Memorial Univ. Newfoundland, St. John's, NF A1B 3X9, Canada]

86-003915 Heiligenberg, W. and G. Rose. GATING OF SENSORY INFORMATION: JOINT COMPUTATIONS OF PHASE AND AMPLITUDE DATA IN THE MIDBRAIN OF THE ELECTRIC FISH, *EIGENMANNIA. J. Comp. Physiol. A Sens. Neural Behav.*

PHYSIOLOGY (CONTINUED)

86-003915 CONTINUED *Physiol.* 159(3):311-324. 1986. FR 31(4)
[Neurobiol. Unit, Scripps Inst. Oceanogr., A002, Univ. Calif., La Jolla, CA 92093]

86-003916 Heisler, N. BRANCHIAL ION TRANSFER PROCESSES AS MECHANISMS FOR FISH ACID-BASE REGULATION. *IN: R. Gilles and M. Gillesbaillien (eds.). Transport Processes Iono- and Osmoregulation. Current Comparative Approaches. Springer-Verlag, Berlin.* 1985. p. 177-193. FR 31(4)
[Max Planck Inst. Exp. Med. Physiol., Abt. D-3400 Gottingen, West Germany]

86-003917 Heming, T. A. THE ROLE OF FISH ERYTHROCYTES IN TRANSPORT AND EXCRETION OF CARBON DIOXIDE. *Ph.D. dissertation, Univ. British Columbia* 1984. From Diss. Abstr. Int. B Sci. Eng. 47(3):960. 1986. FR 31(4)

86-003918 Henderson, M. A. and F. J. Ward. CHANGES IN THE CHEMICAL COMPOSITION, CALORIFIC AND WATER CONTENT OF YELLOW PERCH FRY, *PERCA FLUVIATILIS FLAVESCENS. Int. Ver. Theor. Angew. Limnol. Verh.* 20(3): 2025-2030. 1977. FR 31(4)

86-003919 Henderson, R. J. and J. R. Sargent. FATTY ACID METABOLISM IN FISH. *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 349-364. FR 31(4)
[N.E.R.C. Inst. Mar. Biochem., St. Fittick's Rd., Aberdeen AB1 3RA, UK]

86-003920 Hendrick, M.; A. DiNapoli; P. Cammarata and S. Pincus. PURIFICATION OF CARP PUTATIVE EOSINOPHILS ON METRIZAMIDE GRADIENTS. *J. Fish Biol.* 29(1):47-51. 1986. FR 31(4)
[Sch. Vet. Med., Sch. Med., Tufts Univ., Boston, MA]

86-003921 Hew, C. L. and G. L. Fletcher. BIOCHEMICAL ADAPTATION TO THE FREEZING ENVIRONMENT--STRUCTURE, BIOSYNTHESIS AND REGULATION OF FISH ANTIFREEZE POLYPEPTIDES. *IN: R. Gilles (ed.). Circulation, Respiration, and Metabolism: Current Comparative Approaches. Springer-Verlag, Berlin.* p. 553-565. 1985. FR 31(4)
[Res. Inst., Hosp. Sick Children, Toronto, ON M5G 1X8, Canada]

86-003922 Hirt di Kinkel, L. M. [REPRODUCTIVE CYCLE AND FECUNDITY OF THE DORADO *SALMINUS MAXILLOSUS* VALENCIENNES, 1840 (PISCES: CHARACIFORMES: CHARICIDAE).] *Hist. Nat.* 5(14):105-118. 1985. In Spanish with English summ. FR 31(4)
[Pesq. Reg., Inst. Invest., Univ. Nac. Misiones, Tucuman 448, 3300 Posadas, Misiones, Argentina]

86-003923 Houlihan, D. F.; D. N. McMillan and P. Laurent. GROWTH RATES, PROTEIN SYNTHESIS, AND PROTEIN DEGRADATION RATES IN RAINBOW TROUT: EFFECTS OF BODY SIZE. *Physiol. Zool.* 59(4):482-493. 1986. FR 31(4)
[Dep. Zool., Univ. Aberdeen, Aberdeen AB9 2TN, Scotland]

86-003924 Hughes, G. M.; Y. Kikuchi and J. Barrington. PHYSIOLOGICAL SALINES AND THE MECHANICAL PROPERTIES OF TROUT RED BLOOD CELLS. *J. Fish Biol.* 29(3):393-402. 1986. FR 31(4)
[Res. Unit Comp. Anim. Respir., Bristol Univ., Woodland Rd., Bristol B58 1UG, U.K.]

PHYSIOLOGY (CONTINUED)

86-003925 Humbert, W.; R. Kirsch and V. Simonneaux. IS MUCUS INVOLVED IN BIOCRYSTALLIZATION? STUDY OF THE INTESTINAL MUCUS OF THE SEA-WATER EEL *ANGUILLA ANGUILLA* L. *Cell Tissue Res.* 245(3):599-604. 1986. FR 31(4)
[Univ. Louis Pasteur, Lab. Zool., Strasbourg, France]

86-003926 Hunt, S. THE SELACHIAN EGG CASE COLLAGEN. *NATO Adv. Stud. Inst. Ser. Ser. A Life Sci.* 93:409-434. 1985. FR 31(4)
[Dep. Biol. Sci., Univ. Lancaster, Lancaster LA1 4YQ, England]

86-003927 Jobling, M. MYTHICAL MODELS OF GASTRIC EMPTYING AND IMPLICATIONS FOR FOOD CONSUMPTION STUDIES. *Environ. Biol. Fishes* 16(1-3):35-50. 1986. FR 31(4)
[Fish. Inst., Univ. Tromso, P.O. Box 3083, Guleng, N-9001 Tromso, Norway]

86-003928 Jorgensen, L. and H. Grasdalen. P-NMR STUDIES OF PHOSPHATE METABOLITES IN INTACT RED AND WHITE SWIMMING MUSCLES OF COD (*GADUS MORHUA* L.). *Comp. Biochem. Physiol. B Comp. Biochem.* 84(4):447-450. 1986. FR 31(4)
[Dep. Zool., Univ. Trondheim, N-7055 Dragvoll, Norway]

86-003929 Kao, M. H.; G. L. Fletcher; N. C. Wang and C. L. Hew. THE RELATIONSHIP BETWEEN MOLECULAR WEIGHT AND ANTIFREEZE POLYPEPTIDE ACTIVITY IN MARINE FISH. *Can. J. Zool.* 64(3):578-582. 1986. FR 31(4)
[Dep. Biol., Memorial Univ. Newfoundland, St. John's, NF A1G 5S7, Canada]

86-003930 Kawatsu, H CLOTTING TIME OF COMMON CARP BLOOD. *Bull Jpn. Soc. Sci. Fish.* 52(4):591-595. 1986. FR 31(4)
[Dep. Fish., Fac. Agric., Miyazaki Univ., Kumano, Miyazaki 889-21, Japan]

86-003931 Kayama, M.; M. Hirata and T. Hisai. EFFECT OF WATER TEMPERATURE ON THE DESATURATION OF FATTY ACIDS IN CARP. *Bull. Jpn. Soc. Sci. Fish.* 52(5):853-857. 1986. FR 31(4)
[Lab. Mar. Biochem., Fac. Appl. Biol. Sci., Hiroshima Univ., Fukuyama, Hiroshima 720, Japan]

86-003932 Kayama, M.; T. Sado and N. Iijima. THE PROSTAGLANDIN SYNTHESIS IN RAINBOW TROUT THROMBOCYTE. *Bull. Jpn. Soc. Sci. Fish.* 52(5):925. 1986. FR 31(4)
[Lab. Mar. Biochem., Fac. Appl. Biol. Sci., Hiroshima Univ., 2-17 Midorimachi, Fukuyama 720, Japan]

86-003933 Kent, J. D. TISSUE HYPERTROPHY: A QUANTITATIVE ADAPTATIONAL STRATEGY DURING COLD ACCLIMATION IN CHANNEL CATFISH AND GREEN SUNFISH. *Ph.D. dissertation, Univ. Ill.* 278p. 1986. From Diss. Abstr. Int. B. Sci. Eng. 47(3):952. 1986. FR 31(4)

86-003934 Khakimullin, A. A. and L. G. Molodykh. METABOLIC RATE IN DEVELOPING EGGS OF THE SIBERIAN STURGEON, *ACIPENSER BAERI*. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(1):81-88. 1986. FR 31(4)

86-003935 Kime, D. E. and N. J. Manning. MATURATIONAL AND TEMPERATURE EFFECTS ON STEROID HORMONE PRODUCITON BY TESTES OF THE CARP, *CYPRINUS CARPIO*. *Aquaculture* 54(1-2):49-55. 1986. FR 31(4)
[Dep. Zool., The University, Sheffield S10 2TN, U.K.]

PHYSIOLOGY (CONTINUED)

86-003936 Kimura, S. THE INTERSTITIAL COLLAGENS OF FISH. *NATO Adv. Stud. Inst. Ser. Ser. A Life Sci.* 93:397-408. 1985. FR 31(4)
[Biochem. Lab., Tokyo Univ. Fish., Minato-ku, Tokyo 108, Japan]

86-003937 Kindle, K. R. and D. H. Whitmore. BIOCHEMICAL INDICATORS OF THERMAL STRESS IN *TILAPIA AUREA* (STEINDACHNER). *J. Fish Biol.* 29(2):243-255. 1986. FR 31(4)
[D. H. Whitmore: Dep. Biol., Univ. Tex., Arlington 76019]

86-003938 Kirsch, R.; W. Humbert and V. Simonneaux. THE GUT AS AN OSMOREGULATORY ORGAN--COMPARATIVE ASPECTS AND SPECIAL REFERENCES TO FISHES. *IN: R. Gilles and M. Gillesbaillien (eds.). Transport Processes Iono- and Osmoregulation. Current Comparative Approaches. Springer-Verlag, Berlin.* 1985. p. 265-279. FR 31(4)
[Univ. Strasbourg 1, Zool. Embryol. Exp. Lab., CNRS, Je 033669, F-67070 Strasbourg, France]

86-003939 Kishimura, H.; T. Ojima and K. Nishita. [HYBRIDIAZTION EXPERIMENTS USING FISH MYOSIN LIGHT CHAINS AND DESENSITIZED AKAZARA MYOSIN.] *Bull. Jpn. Soc. Sci. Fish.* 52(5):847-851. 1986. In Japanese with English summ. FR 31(4)
[Lab. Biopolymer Chem., Fac. Fish., Hokkaido Univ., Hakodate 041, Japan]

86-003940 Kitahara, T. and K. Saito. BIOCHEMICAL STUDIES OF CAROTENOIDS IN THE CHUM SALMON (*ONCORHUNCHUS KETA*) DURING UP-STREAM MIGRATION FOR SPAWNING--V. BEHAVIOR OF CAROTENOIDS IN THE KOKANEE (*O. NERKA*) WITH THE ADVANCEMENT OF MIGRATION. *Sci. Rep. Hokkaido Salmon Hatchery* No.31. p.29-36. 1977. In Japanese with English summ. FR 31(4)

86-003941 Kitazawa, T.; T. Hoshi; K. Temma and H. Kondo. EFFECTS OF MORPHINE AND METHIONINE-ENKEPHALIN ON THE SMOOTH MUSCLE TONUS AND THE CONTRACTION INDUCED BY TRANSMURAL STIMULATION IN THE CARP (*CYPRINUS CARPIO*) INTESTINAL BULB. *Comp. Biochem. Physiol. C Comp. Pharmacol. Toxicol.* 84(2):299-305. 1986. FR 31(4)
[Dep. Vet. Pharmacol., Sch. Vet. Med. Anim. Sci., Kitasato Univ., Towada-shi, Aomori 034, Japan]

86-003942 Kobayashi, M.; K. Aida and I. Hanyu. EFFECTS OF HCG ON MILT AMOUNT AND PLASMA LEVELS OF STEROID HORMONES IN MALE GOLDFISH. *Bull. Jpn. Soc. Sci. Fish.* 52(4):755. 1986. FR 31(4)
[Lab. Fish Physiol., Dep. Fish., Fac. Agric., Univ. Tokyo, Bunkyo, Tokyo 113, Japan]

86-003943 Krutovskiy, S. V.; B. V. Yakovenko; R. N. Shandruk; S. V. Bashchuk and A. F. Yavonenko. METHODOLOGY FOR DETERMINATION OF TOTAL LIPID CONTENT IN CARP TISSUES. *Hydrobiol. J. (Engl. Transl. Gidrobiol. Zh.)* 21(4):90-92. 1985. FR 31(4)
[Ternopol'skiy Pedogog. Inst., USSR]

86-003944 Kuhn, E. R.; F. Huybrechts; F. Govaerts; E. Verbeeck and F. Ollevier. THE THYROXINE-STIMULATING ACTIVITY IS ONLY PRESENT IN THE GLYCOPROTEIN AND NOT IN THE PROTEIN FRACTION OF A CARP HYPOPHYSEAL HOMOGENATE. *Gen. Comp. Endocrinol.* 63(3):321-327. 1986. FR 31(4)
[Lab. Comp. Endocrinol., Cathol. Univ. Leuven, Naamsestr. 59-61, B-3000 Leuven, Belgium]

PHYSIOLOGY (CONTINUED)

86-003945 Kulikova, N. I.; P. V. Shekk and V. I. Rudenko. ON REACTIONS OF YOUNG BLACK SEA MULLETS (MUGILIDAE) TO LOW TEMPERATURES. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):88-98. 1986. FR 31(4)
[AzCherNIRO, Kerch, USSR]

86-003946 Later, A. N. and P. V. Rangneker. STUDIES ON THE HYPOTHALAMUS-PITUITARY-THYROID AXIS OF THE TELEOST FISH *TILAPIA MOSSABICA* (PETERS). *Acta Zool. Pathol. Antverpiensia* No. 77. p.45-60. 1983. FR 31(4)

86-003947 Leger, C. DIGESTION, ABSORPTION AND TRANSPORT OF LIPIDS. *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 299-331. FR 31(4)
[Stn. Rech. Nutr., INRA, 78350 Jouy-en-Josas, France]

86-003948 Lesel, M.; A. Lanusse and R. Lesel. CELLULOLYTIC ACTIVITY OF THE DIGESTIVE FLORA OF TWO CYPRINIDS, THE AMUR CARP (*CTENOPHARYNGODON IDELLA*) AND THE GOLD FISH (*CARASSIUS AURATUS*) AT 14°C. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2591-2597. 1983. In French with English summ. FR 31(4)

86-003949 Lesel, R.; C. Fromageot, J. M. Blanc and M. Lesel. ENZYMATIC PROFILES (OSIDASES) OF TWO CYPRINIDS: *CTENOPHARYNGODON IDELLA* AND *CARASSIUS AURATUS*. *Aquaculture* 54(1-2):19-25. 1986. FR 31(4)
[Lab. Microorgan., INRA, Stn. Hydrobiol., B.D.3, Saint Pee-sur-Nevelle, 64310 Ascain, France]

86-003950 Lesel, R.; C. Fromageot and M. Lesel. CELLULOSE DIGESTIBILITY IN GRASS CARP, *CTENOPHARYNGODON IDELLA* AND N GOLDFISH, *CARASSIUS AURATUS*. *Aquaculture* 54(1-2):11-17. 1986. FR 31(4)
[Lab. Microorgan., INRA, Stn. Hydrobiol., B.D.3, Saint Pee-sur-Nevelle, 64310 Ascain, France]

86-003951 Levels, P. J.; R. E. M. B. Gubbels and J. M. Denuce. OXYGEN CONSUMPTION DURING EMBRYONIC DEVELOPMENT OF THE ANNUAL FISH *NOTHOBRANCHIUS KORTHAUSAE* WITH SPECIAL REFERENCE TO DIAPAUSE. *Comp. Biochem. Physiol. A Comp. Physiol.* 84(4):767-770. 1986. FR 31(4)
[Dep. Zool., Catholic Univ., Toernooiveld, 6525ED Nijmegen, Netherlands]

86-003952 Lied, E.; O. Lie and G. Lambertsen. NUTRITIONAL EVALUATION IN FISH BY MEASUREMENT OF *IN VITRO* PROTEIN SYNTHESIS IN WHITE TRUNK MUSCLE TISSUE. *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 169-176. FR 31(4)
[Inst. Nutr., Dir. Fish., P.O. Box 4285, N-5013 Nygaardstangen/Bergen, Norway]

86-003953 Litman, G. W.; K. Hinds; L. Berger; K. Murphy and R. Litman. STRUCTURE AND ORGANIZATION OF IMMUNOGLOBULIN V_H GENES IN *HETERODONTUS*. A PHYLOGENETICALLY PRIMITIVE SHARK. *Dev. Comp. Immunol.* 9(4):749-758. 1985. FR 31(4)

86-003954 Luczynski, M. and J. Dettlaff. PRECOCIOUS HATCHING IN COREGONINAE EMBRYOS BY ELECTRIC STIMULATION. *J. Appl. Ichthyol.* 1(4): 157-164. 1985. In English with French and German summ. FR 31(4)
[Inst. Ichthyol. Fish., Acad. Agric. Technol., 10-957 Olsztyn-Kortowo, Poland]

PHYSIOLOGY (CONTINUED)

86-003955 Lundin, K. and S. Holmgren. NON-ADRENERGIC, NON-CHOLINERGIC INNERVATION OF THE URINARY BLADDER OF THE ATLANTIC COD, *GADUS MORHUA*. *Comp. Biochem. Physiol. C Comp. Pharmacol. Toxicol.* 84(2):315-323. 1986. FR 31(4)
[Comp. Neurosci. Unit, Dep. Zoophysiol., Univ. Goteborg, Box 250 59, S-400 31 Goteborg, Sweden]

86-003956 Macdonald, J. A. and J. C. Montgomery. RATE-COMPENSATED SYNAPTIC EVENTS IN ANTARCTIC FISH: CONSEQUENCES OF HOMEOVISCOUS COLD-ADAPTION. *Experientia (Basel)* 42(7):806-808. 1986. FR 31(4)
[Dep. Zool., Univ. Auckland, P.B., Auckland, New Zealand]

86-003957 Maisse, G. and B. Breton. IDENTIFICATION OF VITELLOGENIC FEMALES IN WHITEFISH (*COREGONUS SP.*) IN LAKE LEMAN (LAKE GENEVA). *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:299-301. 1986. FR 31(4)
[Lab. Physiol. Poissons, 35042 Rennes Cedex, France]

86-003958 Malyrevskaya, A. Y.; T. I. Bilyk; V. V. Sherstyuk and V. A. Tugay. ECOLOGICAL PHYSIOLOGY AND BIOCHEMISTRY OF AQUATIC ANIMALS SEASONAL DYNAMICS OF MACROERGIC COMPOUNDS IN MUSCLES OF FISH. *Hydrobiol. J. (Engl. Transl. Gidrobiol. Zh.)* 21(3):61-69. 1985. FR 31(4)
[Inst. Hydrobiol., Ukrainian Acad. Sci., Kiev, USSR]

86-003959 Manning, M. J. and M. F. Tatner (eds.). SYMPOSIUM ON FISH IMMUNOLOGY. *Fish. Soc. Br. Isles, Plymouth* 374p. 1983. A Collection of papers.--RS.

86-003960 Manning, M. J. and M. F. Tatner. FISH IMMUNOLOGY. *Academic Press.* xi+374p. 1985. FR 31(4)

86-003961 Martem'yanov, V. I. SENSITIVITY OF FISH TO NATURAL AND LABORATORY CONDITIONS. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(1):162-164. 1986. FR 31(4)
[AN USSR IBVV, Borok, Yaroslav Prov., USSR]

86-003962 Masser, M. P. and W. H. Neill. ROUTES OF HEAT TRANSFER IN TWO TELEOSTS, *ICTALURUS PUNCTATUS* AND *LEPOMIS MACROCHIRUS*. *Environ. Biol. Fishes.* 16(4):321-324. 1986. FR 31(4)
[Dep. Wildl. Fish. Sci., Tex. A&M Univ., College Station 77843]

86-003963 Matsuno, T.; T. Maoka; M. Katsuyama; T. Hirono; Y. Ikuno; M. Shimizu and T. Komori. COMPARATIVE BIOCHEMICAL STUDIES OF CAROTENOIDS IN FISHES--XXIX. ISOLATION OF NEW LUTEINS, LUTEIN F AND LUTEIN G FROM MARINE FISHES. *Comp. Biochem. Physiol. B Comp. Biochem.* 85(1):77-80. 1986. FR 31(4)
[Dep. Nat. Prod. Res., Kyoto Pharmaceut. Univ., Yamashina-ku, Kyoto 607, Japan]

86-003964 Matsuura, M.; T. Yoshioka and E. Arai. [REVERSIBLE CHANGES IN ACTIN-ACTIVATED MG-ATPASE ACTIVITY OF FISH MYOSINS INDUCED BY VARIOUS EFFECTORS.] *Bull. Jpn. Soc. Sci. Fish.* 52(5):831-837. 1986. In Japanese with English summ. FR 31(4)
[Lab. Biochem., Fac. Fish., Hokkaido Univ., Hakodate, Hokkaido 041, Japan]

PHYSIOLOGY (CONTINUED)

86-003965 Matty, A. J. and K. P. Lone. HORMONAL CONTROL OF PROTEIN DEPOSITION. *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 147-167. FR 31(4)
[Dep. Biol. Sci., Univ. Aston, Gosta Green, Birmingham B4 3RA, UK]

86-003966 McBride, J. R.; U. H. M. Fagerlund; H. M. Dye and J. Bagshaw. CHANGES IN STRUCTURE OF TISSUES AND IN PLASMA CORTISOL DURING THE SPAWNING MIGRATION OF PINK SALMON, *ONCORHYNCHUS GORBUSCHA* (WALBAUM). *J. Fish Biol.* 29(2):153-166. 1986. FR 31(4)
[Dep. Fish. Oceans, 4160 Marine Dr., West Vancouver, BC V7V 1N6, Canada]

86-003967 McCollum, K.; D. Gregory; B. Williams and G. Taborsky. PHOSVITIN ISOLATION FROM FISH EGGS: METHODOLOGICAL IMPROVEMENTS INCLUDING 'SPECIFIC' PHOSVITIN PRECIPITATION WITH FERRIC ION. *Comp. Biochem. Physiol. B Comp. Biochem.* 84(2):151-157. 1986. FR 31(4)
[Dep. Biol. Sci., Sect. Biochem. Molec. Biol., Univ. Calif., Santa Barbara 93106]

86-003968 McGlade, J. and P. Allen. EVOLUTION OF MULTIFUNCTIONALISM IN ENZYMES: SPECIALIST VERSUS GENERALIST STRATEGIES. *Can. J. Fish. Aquatic Sci.* 43(5):1052-1058. 1986. In English with French summ. FR 31(4)
[Mar. Fish Div., Bedford Inst. Oceanogr., P.O. Box 1006, Dartmouth, NS B2Y 4A2, Canada]

86-003969 McKay, M. C. and R. F. Lee. THE PLASMA LIPOPROTEINS OF THE CHANNEL CATFISH, *ICTALURUS PUNCTATUS*, AND THEIR ROLE IN THE TRANSPORT OF DIETARY LIPIDS. *Ga. J. Sci.* 40(1-2):8-9. 1982. Abstract only. FR 31(4)

86-003970 McLean, E. and R. Ash. THE TIME-COURSE OF APPEARANCE AND NET ACCUMULATION OF HORSERADISH PEROXIDASE (HRP) PRESENTED ORALLY TO JUVENILE CARP *CYPRINUS CARPIO (L.). Comp. Biochem. Physiol. A Comp. Physiol.* 84(4):687-690. 1986. FR 31(4)
[R. Ash: Sch. Biomed. Sci., Univ. Bradford, Bradford, West Yorkshire BD7 1DP, England]

86-003971 McLeese, J. M. and E. D. Stevens. TRYPSIN FROM TWO STRAINS OF RAINBOW TROUT, *SALMO GAIRDNERI*, IS INFLUENCED DIFFERENTLY BY ASSAY AND ACCLIMATION TEMPERATURE. *Can. J. Fish. Aquatic Sci.* 43(8):1664-1667. 1986. In English with French summ. FR 31(4)
[Dep. Zool., Univ. Guelph, Guelph, ON N1G 2W1, Canada]

86-003972 McPherson, G. R. SEX CHANGE IN THE WRASSE *PSEUDOLABRUS GYMNOGENIS* (LABRIDAE). *Aust. Zool.* 19(2):185-200. 1977. FR 31(4)

86-003973 Meissl, H.; T. Nakamura and G. Thiele. NEURAL RESPONSE MECHANISMS IN THE PHOTORECEPTIVE PINEAL ORGAN OF GOLDFISH. *Comp. Biochem. Physiol. A Comp. Physiol.* 84(3):467-473. 1986. FR 31(4)
[Max-Planck-Inst., Parkstr. 1, D-6350 Bod Nauheim, West Germany]

86-003974 Micale, V.; F. Perdichizzi and G. Santangelo. PRELIMINARY INVESTIGATIONS ON GONADAL MATURATION IN CAPTIVE WHITE BREAM, *DIPLODUS SARGUS* (L.). *Oebalia* 11(3):899-902. 1985. In English with Italian Summ. FR 31(4)
[Ist. Sper. Talassograf. C.N.R., Messina, Italy]

PHYSIOLOGY (CONTINUED)

86-003975 Mittal, A. K. and G. D. Nigam. FISH SKIN SURFACE LIPIDS: PHOSPHOLIPIDS. *J. Fish Biol.* 29(1):123-138. 1986. FR 31(4)
[Skin Physiol. Lab., Dep. Zool., Banaras Hindu Univ., Varanasi 221 005, India]

86-003976 Mughal, M. S. and M. J. Manning. THE IMMUNE SYSTEM OF JUVENILE THICK-LIPPED GREY MULLET, *CHELON LABROSUS* RISSO: ANTIBODY RESPONSES TO SOLUBLE PROTEIN ANTIGENS. *J. Fish Biol.* 29(2):177-186. 1986. FR 31(4)
[Dep. Zool., Govt. Coll., Lahore 1, Pakistan]

86-003977 Mullen A. J. THE EFFECT OF THE CHOICE OF EVACUATION MODEL ON THE ESTIMATION OF FEEDING RATE. *Environ. Biol. Fishes* 16(1-3):213-217. 1986. FR 31(4)
[Inter-Am. Trop. Tuna Comm., c/o Scripps Inst. Oceanogr., La Jolla, CA 92037]

86-003978 Muntz, W. R. A. and G. S. V. Mouat. ANNUAL VARIATIONS IN THE VISUAL PIGMENTS OF BROWN TROUT INHABITING LOCHS PROVIDING DIFFERENT LIGHT ENVIRONMENTS. *Vision Res.* 24(11):1575-1580. 1984. FR 31(4)
[Dep. Biol. Sci., Univ. Stirling, Stirling FK9 4LA, Scotland]

86-003979 Murray, C. B. and T. D. Beacham. EFFECT OF VARYING TEMPERATURE REGIMES ON THE DEVELOPMENT OF PINK SALMON (*ONCORHYNCHUS GORBUSCHA*) EGGS AND ALEVINS. *Can. J. Zool.* 64(3):670-676. 1986. FR 31(4)
[Pac. Biol. Stn., Nanaimo, BC V9R 5K6, Canada]

86-003980 Nagamura, Y. and H. Wakabayashi. [A METHOD FOR SEPARATING NEUTROPHILS FROM CELL BLOOD.] *Fish Pathol.* 20(1):65-66. 1985. In Japanese. FR 31(4)

86-003981 Nakamura, T.; G. Thiele and H. Meissl. INTRACELLULAR RESPONSES FROM THE PHOTOSENSITIVE PINEAL ORGAN OF THE TELEOST, *PHOXINUS PHOXINUS*. *J. Comp. Physiol. A Sens. Neural Behav. Physiol.* 159(3):325-330. 1986. FR 31(4)
[H. Meissl: Max-Planck-Inst. Physiol. Klin. Forsch., Parkstr. 1, D-6350 Bad Nauheim, West Germany]

86-003982 Nakamura, Y. and T. Hirano. EFFECT OF HYPOPHYSECTOMY ON ABSORPTION OF INORGANIC PHOSPHATE BY THE EEL INTESTINE. *Comp. Biochem. Physiol. A Comp. Physiol.* 84(4):595-599. 1986. FR 31(4)
[Hokkaido Reg. Fish. Res. Lab., Katsurakoi, Kushiro 085, Japan]

86-003983 Ng, T. B.; P. P. L. Tam and N. Y. S. Woo. SEXUAL MATURATION IN THE BLACK SEABREAM, *MYLIO MACROCEPHALUS* TELEOSTEI, SPARIDAE: CHANGES IN PITUITARY GONADOTROPES, HEPATOCYTES AND RELATED BIOCHEMICAL CONSTITUENTS IN LIVER AND SERUM. *Cell Tissue Res.* 245(1):207-213. 1986. FR 31(4)
[Dep. Biochem., Fac. Med., Chinese Univ. Hong Kong, Shatin, N.T. Hong Kong]

86-003984 Nikinmaa, M. RED CELL pH OF LAMPREY *(LAMPETRA FLUVIATILIS)* IS ACTIVELY REGULATED. *J. Comp. Physiol. B Biochem. Syst. Environ. Physiol.* 156(5):747-750. 1986. FR 31(4)
[Div. Physiol., Dep. Zool., Univ. Helsinki, SF-00100 Helsinki 10, Finland]

86-003985 Nishimura, H. EVOLUTION OF THE RENIN-ANGIOTENSIN SYSTEM AND ITS ROLE IN CONTROL OF CARDIOVASCULAR FUNCTION IN FISHES. *IN: R. E. Foreman; A. Gorbman, J. Dodd and R. Olsson (eds.). Evolutionary Biology of Primitive*

PHYSIOLOGY (CONTINUED)

86-003985 CONTINUED *Fishes. Plenum Press.* 1985. p. 275-293. FR 31(4)
[Dep. Physiol. Biophys., Univ. Tenn. Cent. Health Sci., Memphis 38163]

86-003986 Nozaki, M. TISSUE DISTRIBUTION OF HORMONAL PEPTIDES IN PRIMITIVE FISHES. *IN: R. E. Foreman; A. Gorbman; J. M. Dodd and R. Olsson (eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 433-454. FR 31(4)
[Primate Res. Inst., Kyoto Univ., Inuyama, Aichi 484, Japan]

86-003987 Obara, S. and Y. Sugawara. ELECTRORECEPTOR MECHANISMS IN TELOST AND NON-TELEOST FISHES. *In: L. Bolis, R. D. Keynes and S. H. P. Maddrell, eds. Comparative Physiology of Sensory Systems. Cambridge Univ. Press, 1984.* p. 509-523. FR 31(4)
[Dep. Physiol., Sch. Med., Teikyo Univ., Itabashi-Ku, Tokoyo 173, Japan]

86-003988 Olson, R. J. and A. J. Mullen. RECENT DEVELOPMENTS FOR MAKING GASTRIC EVACUATION AND DAILY RATION DETERMINATIONS. *Environ. Biol. Fishes* 16(1-3):183-191. 1986. FR 31(4)
[Inter-Am. Trop. Tuna Comm., c/o Scripps Inst. Oceanogr., La Jolla, CA 92093]

86-003989 Omeljaniuk, R. J. and J. G. Eales. THE EFFECT OF 3,5,3'-TRIIODO-L-THYRONINE ON GILL Na^+/K^+-ATPase OF RAINBOW TROUT *SALMO GAIRDNERI*, IN FRESH WATER. *Comp. Biochem. Physiol. A Comp. Physiol.* 84(3):427-429. 1986. FR 31(4)
[Dep. Zool., Univ. Alberta, Edmonton, AB T6G 2E1, Canada]

86-003990 Omura, Y.; S. Ueno and M. Ueck. CYTOCHEMICAL DEMONSTRATION OF ACID PHOSPHATASE ACTIVITY IN THE PINEAL ORGAN OF THE RAINBOW TROUT, *SALMO GAIRDNERI. Cell Tissue Res.* 245(1):171-176. 1986. FR 31(4)
[Lab. Fish Biol., Fac. Agric., Nagaya Univ., Chikusa, Nagaya, 464, Japan]

86-003991 Onitake, K. and T. Iwamatsu. IMMUNOCYTOCHEMICAL DEMONSTRATION OF STEROID HORMONES IN THE GRANULOSA CELLS OF THE MEDAKA, *ORYZIAS LATIPES. J. Exp. Zool.* 239(1):97-103. 1986. FR 31(4)
[Biol. Lab., Nagoya Univ. Coll. Med. Technol., Daiko-minami, Higashi-ku Nagoya 461, Japan]

86-003992 Onstott, D. and R. Elde. COEXISTENCE OF UROTENSIN I.CORTICOTROPIN-RELEASING FACTOR AND UROTENSIN II IMMUNOREACTIVITIES IN CELLS OF THE CAUDAL NEUROSECRETORY SYSTEM OF A TELEOST AND AN ELASMOBRANCH FISH. *Gen. Comp. Endocrinol.* 63(2):295-300. 1986. FR 31(4)
[Dep. Ecol. behav. Biol., Univ. Minn., Minneapolis 55455]

86-003993 Pakulska, D.; K. Shakuntala and S. R. Reddy. EFFECTS OF MEAL SIZE ON GROWTH AND CONVERSION EFFICIENCY OF THE FRESHWATER CATFISH *CLARIAS BATRACHUS* (LINN.). *J. Appl. Ichthyol.* 2(4):157-162. 1986. In English with French and German summ. FR 31(4)
[Dep. Ecol. Vert. Zool., Univ. Lodz, Poland]

PHYSIOLOGY (CONTINUED)

86-003994 Pandey, K. and M. Misra. CYCLIC CHANGES IN THE TESTES AND SECONDARY SEX CHARACTERS OF FRESH WATER TELEOST *COLISA FASCIATA*. *Arch. Biol.* 92(4):433-449. 1981. FR 31(4)
[Dep. Zool., Univ. Gorakhpur, Gorakhpur 273001, India]

86-003995 Pandey, K.; I. M. Tripathi and J. P. Shukla. HYPOTHALAMO-HYPOPHYSIAL VASCULARIZATION IN THE MUD EEL, *AMPHIPNOUS CUCHIA* (HAM). *Arch. Biol.* 91(3):463-470. 1980. FR 31(4)

86-003996 Patino, R.; C. S. Bradford and C. B. Schreck. ADENYLATE CYCLASE ACTIVATORS AND INHIBITORS, CYCLIC NUCLEOTIDE ANALOGS, AND PHOSPHATIDYLINOSITOL: EFFECTS ON INTERRENAL FUNCTION OF COHO SALMON (*ONCORHYNCHUS KISUTCH*) IN VITRO. *Gen. Comp. Endocrinol.* 63(2): 230-235. 1986. FR 31(4)
[Oreg. Coop. Fish. Res. Unit, Oreg. State Univ., Corvallis 97331]

86-003997 Paul, A. J. RESPIRATION OF JUVENILE POLLOCK, *THERAGRA CHALCOGRAMMA* (PALLAS), RELATIVE TO BODY SIZE AND TEMPERATURE. *J. Exp. Mar. Biol. Ecol.* 97(3):287-293. 1986. FR 31(4)
[Univ. Alaska Inst. Mar. Sci., Seward Mar. Cent., P.O. Box 730, Seward, AK 99664]

86-003998 Pelizaro, M. G.; H. S. Leme Dos Santos; R. A. Lopes and N. Castagnoli. RHYTHM OF DEVELOPMENT IN THE OOCYTE OF THE TAMBIU *ASTYANAX BIMACULATUS* (REINHARDT, 1874) (PISCES: CHARACIDAE) A MORPHOMETRIC AND HISTOCHEMICAL STUDY. *Arch. Biol.* 92(4):415-431. 1981. FR 31(4)
[Dep. Morfol., UNESP, Jaboticabal, SP, Brazil]

86-003999 Perry, S. F. CARBON DIOXIDE EXCRETION IN FISHES. *Can. J. Zool.* 64(3):565-572. 1986. FR 31(4)
[Dep. Biol., Univ. Ottawa, 30 Somerset East, Ottawa, ON K1N 6N5, Canada]

86-004000 Persson, L. PATTERNS OF FOOD EVACUATION IN FISHES: A CRITICAL REVIEW. *Environ. Biol. Fishes* 16(1-3):51-58. 1986. FR 31(4)
[Fish Ecol. Res. Group, Inst. Limnol., Univ. Lund, P.O. Box 65, S-221 00 Lund, Sweden]

86-004001 Peterson, R. H. and D. J. Martin-Robichaud. PERIVITELLINE AND VITELLINE POTENTIALS IN TELEOST EGGS AS INFLUENCED BY AMBIENT IONIC STRENGTH, NATAL SALINITY, AND ELECTRODE ELECTROLYTE; AND THE INFLUENCE OF THESE POTENTIALS ON CADMIUM DYNAMICS WITHIN THE EGG. *Can. J. Fish. Aquatic Sci.* 43(7):1445-1450. 1986. In English with French summ. FR 31(4)
[Dep. Fish. Oceans, Biol. Stn., St. Andrews, NB E0G 2X0, Canada]

86-004002 Phillips, J. O. and D. D. Ourth. ISOLATION AND MOLECULAR WEIGHT DETERMINATION OF TWO IMMUNOGLOBULIN HEAVY CHAINS IN THE CHANNEL CATFISH, *ICTALURUS PUNCTATUS*. *Comp. Biochem. Physiol. B Comp. Biochem.* 85(1):49-54. 1986. FR 31(4)
[D. D. Ourth: Dep. Biol., Memphis State Univ., Memphis, TN 38152]

86-004003 Pickering, A. D. CHANGES IN BLOOD CELL COMPOSITION OF THE BROWN TROUT, *SALMO TRUTTA* L., DURING THE SPAWNING SEASON. *J. Fish Biol.* 29(3):335-347. 1986. FR 31(4)
[Freshwater Biol. Assoc., The Ferry House, Far Sawrey, North Ambleside, Cumbria, U.K.]

PHYSIOLOGY (CONTINUED)

86-004004 Plisetskaya, E. M.; H. B. Pollock; J. B. Rouse; J. W. Hamilton; J. R. Kimmel; P. C. Andrews and A. Gorbman. CHARACTERIZATION OF COHO SALMON (*ONCORHYNCHUS KISUTCH*) ISLET SOMATOSTATINS. *Gen. Comp. Endocrinol.* 63(2):252-263. 1986. FR 31(4)
[Dep. Zool., Univ. Wash., Seattle 98195]

86-004005 Plisetskaya, E. SOME ASPECTS OF HORMONAL REGULATION OF METABOLISM IN AGNATHANS. *IN: R. E. Foreman; A. Gorbman; J. M. Dodd and R. Olsson (eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 339-361. FR 31(4)
[Dep. Zool., Univ. Wash., Seattle]

86-004006 Powers, D. A. MOLECULAR AND CELLULAR ADAPTATIONS OF FISH HEMOGLOBIN-OXYGEN AFFINITY TO ENVIRONMENTAL CHANGES. *IN: Respiration Pigments in Animals: Relating Structure Function. Proc. 1st Int. Congr. Comp. Phyiol. Biochem.* p. 97-124. 1985. FR 31(4)
[Johns Hopkins Univ., Dep. Biol., Baltimore, MD 21218]

86-004007 Prosser, C. L. EVOLUTION OF TEMPERATURE REGULATION AND OF CONSTANCY OF FUNCTION (HOMEOKINESIS) AT DIFFERENT TEMPERATURES. *IN: R. E. Foreman; A. Gorbman; J. M. Dodd and R. Osllon (eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 203-215. FR 31(4)
[Dep. Physiol. Biophys., Univ. Ill., Urbana 61801]

86-004008 Raffin, J. P. ACTIVATION OF TROUT GILL AMP DEAMINASE BY AN ENDOGENOUS PROTEINASE--II. MODIFICATION OF THE PROPERTIES OF THE ENZYME DURING STARVATION, POLLUTION AND SALINITY CHANGES. *Comp. Biochem. Physiol. B Comp. Biochem.* 85(1):163-171. 1986. FR 31(4)
[Lab. Biol. Mar. Coll. France, Place de la Croix 29110, Concarneau, France]

86-004009 Raffin, J. P. ACTIVATION OF TROUT GILL AMP DEAMINASE BY AN ENDOGENOUS PROTEINASE--I. EFFECTS ON THE REGULATORY PROPERTIES OF THE ENZYME. *Comp. Biochem. Physiol. B Comp. Biochem.* 85(1):157-162. 1986. FR 31(4)
[Lab. Biol. Mar. Coll. France, Place de la Croix 29110, Concarneau, France]

86-004010 Raffin, J. P. ACTIVATION OF TROUT GILL AMP DEAMINASE BY AN ENDOGENOUS PROTEINASE--III. COMPARATIVE STUDIES ON THE GILL AMP DEAMINASE FROM DIFFERENT FRESH WATER AND SEA WATER TELEOSTS. *Comp. Biochem. Physiol. B Comp. Biochem.* 85(1):173-182. 1986. FR 31(4)
[Lab. Biol. Mar. Coll. France, Place de la Croix 29110, Concarneau, France]

86-004011 Rehbein, H. and R. Kundiger. COMPARISON OF THE ISOELECTRIC FOCUSING PATTERNS OF THE SARCOPLASMIC PROTEINS FROM RED AND WHITE MUSCLE OF VARIOUS FISH SPECIES. *Arch. Fishchereiwiss.* 35(1-2):7-16. 1984. In English with German summ. FR 31(4)
[Inst. Biochem. Technol., Bundesforsch. Fisch., Hamburg, West Germany]

86-004012 Rehse, P. H. and W. S. Davidson. PURIFICATION AND PROPERTIES OF A C-TYPE ISOZYME OF LACTATE DEHYDROGENASE FROM THE LIVER OF THE ATLANTIC COD *(GADUS MORHUA). Comp. Biochem. Physiol. B Comp. Biochem.*

PHYSIOLOGY (CONTINUED)

86-004012 CONTINUED 84(2):145-150. 1986. FR 31(4)
[W.S. Davidson: Dep. Biochem., Memorial Univ. Newfoundland, St. Johns, NF A1B 3X9, Canada]

86-004013 Richman, N. H. HORMONES AND OSMOREGULATION IN DEVELOPING COHO SALMON *(ONCORHYNCHUS KISUTCH). Ph.D. dissertation, Univ. Calif. (Berkeley)* 114p. 1985. From Diss. Abstr. Int. B Sci. Eng. 47(4):1452. 1986. FR 31(4)

86-004014 Rijkers, G. T. IMMUNOLOGIC RELATIONS AMONG FISH GROUPS. *IN: R. E. Foreman; A. Gorbman; J. M. Dodd and R. Olsson (eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 187-202. FR 31(4)
[Dep. Immunol., Univ. Hosp. Children and Youth, Utrecht, Netherlands]

86-004015 Rivas, R. J.; R. S. Nichioka and H. A. Bern. IN VITRO EFFECTS OF SOMATOSTATIN AND UROTENSIN II ON PROLACTIN AND GROWTH HORMONE SECRETION IN TILAPIA, *OREOCHROMIS MOSSAMBICUS. Gen. Comp. Endocrinol.* 63(2): 245-251. 1986. FR 31(4)
[Dep. Zool., Univ. Calif., Berkeley 94720]

86-004016 Roberts, B. L. ROLE OF SENSORY INFORMATION IN THE CONTROL OF LOCOMOTION IN FISHES. *In: L. Bolis, R. D. Keynes and S. H. P. Maddrell, eds. Comparative Physiology of Sensory Systems. Cambridge Univ. Press, 1984.* p.623-636. FR 31(4)
[Mar. Biol. Assoc. U.K., Citadel Hill, Plymouth L11 2PB, England]

86-004017 Robertson, J. D. THE OSMOTIC CONCENTRATION OF PARIETAL MUSCLE OF THE HAGFISH *MYXINE GLUTINOSA* L., INCLUDING ESTIMATES OF FREE AND BOUND CONSTITUENTS. *Comp. Biochem. Physiol. A Comp. Physiol.* 84(4): 751-757. 1986. FR 31(4)
[Zool. Dep., Univ. Glasgow, Glasgow G12 8QQ, Scotland]

86-004018 Romanenko, V. D.; T. D. Malyzheva and N. Y. Yevtushenko. THE ROLE OF VARIOUS ORGANS IN REGULATING ZINC METABOLISM IN FISH. *Hydrobiol. J. (Engl. Transl. Gidrobiol. Zh.)* 21(3):7-12. 1985. FR 31(4)
[Inst. Hydrobiol., UkSSR Acad. Sci., Kiev, USSR]

86-004019 Rose, G. and W. Heiligenberg. NEURAL CODING OF DIFFERENCE FREQUENCIES IN THE MIDBRAIN OF THE ELECTRIC FISH *EIGENMANNIA*: READING THE SENSE OF ROTATION IN AN AMPLITUDE-PHASE PLANE. *J. Comp. Physiol. A Sens. Neural Behav. Physiol.* 158(5):613-624. 1986. FR 31(4)
[Neurobiol. Unit, A-002 Scripps Inst. Oceanogr., Univ. Calif., San Diego, La Jolla, CA 92093]

86-004020 Rusaoueninnocent, M. NIDAMENTAL GLAND SECRETING THE DOG-FISH EGGSHELL. *NATO Adv. Stud. Inst. Ser. Ser. A Life Sci.* 93:471-476. 1985. FR 31(4)
[Histol. Cytol. Invest. Mar. Lab., Univ. Pierre Marie Curie, F-75005 Paris, France]

86-004021 Sadler, K. and S. Lynam. SOME EFFECTS OF LOW pH AND CALCIUM ON THE GROWTH AND TISSUE MINERAL CONTENT OF YEARLING BROWN TROUT, *SALMO TRUTTA. J. Fish Biol.* 29(3):313-324. 1986. FR 31(4)

PHYSIOLOGY (CONTINUED)

86-004021 CONTINUED
[Cent. Elec. Res. Lab., Freshwater Biol. Unit, Midlands Reg. Sci. Serv. Dep., Ratcliffe-on-Soar, Nottingham NG11 OEE, U.K.]

86-004022 Sakaguchi, M. and M. Murata. DISTRIBUTION OF FREE AMINO ACIDS, CREATINE, AND TRIMETHYLAMINE OXIDE IN MACKEREL AND YELLOWTAIL. *Bull. Jpn. Soc. Sci. Fish.* 52(4):685-689. 1986. In Japanese with English summ. FR 31(4)
[Res. Inst. Food Sci., Kyoto Univ., Uji, Kyoto 611, Japan]

86-004023 Sakai, T.; O. Gotoh; M. Noguchi and H. Kawatsu. [CHANGES IN BILIRUBIN CONTENTS AND COMPOSITION IN THE BILE OF STARVED AND CCI INJECTED CARP.] *Fish Pathol.* 20(4):469-473. 1985. In Japanese with English summ. FR 31(4)
[Fac. Agric., Miyazaki Univ., Kumano 7710, Miyazaki 889-21, Japan]

86-004024 Sand, O. LATERAL-LINE SYSTEMS. *In: L. Bolis, R. D. Keynes and S. H. P. Maddrell, eds. Comparative Physiology of Sensory Systems. Cambridge Univ. Press, 1984.* p.3-32. FR 31(4)
[Dep. Biol., Univ. Oslo, Oslo, Norway]

86-004025 Santulli, A. and V. D'Amelio. [L-CARNITINE LEVELS DISTRIBUTION IN THE FISH.] *Oebalia* 11(1):69-71. 1985. In Italian with English summ. FR 31(4)
[Ist. Biol. Mar. "Villa Nasi", Consor. Libero Ist. Stud. Univ. Piazza Scarlatti 91100 Trapani, Italy]

86-004026 Satchell, G. H. CARDIAC FUNCTION IN THE HAGFISH, *MYXINE* (MYXINOIDEA: CYCLOSTOMATA). *Acta Zool.(Stockh.)* 67(2):115-122. 1986. FR 31(4)
[Dep. Physiol., Otago Med. Sch., Dunedin, New Zealand]

86-004027 Sato, K.; R. Yoshinaka; M. Sato and S. Ikeda. A SIMPLIFIED METHOD FOR DETERMINING COLLAGEN IN FISH MUSCLE. *Bull. Jpn. Soc. Sci. Fish.* 52(5):889-893. 1986. FR 31(4)
[Dep. Fish., Fac. Agric., Kyoto Univ., Sakyo, Kyoto 606, Japan]

86-004028 Sautin, Y. Y. SOMATOTROPIN AND PROLACTIN FORMATION ACTIVITY OF THE HYPOPHYSIS AND SOME ASPECTS OF PROTEIN AND LIPID METABOLISM IN CARP IN WARM-WATER POND CULTURE. *Hydrobiol. J. (Engl. Transl. Gidrobiol. Zh.)* 21(3):42-48. 1985. FR 31(4)
[Inst. Hydrobiol., UkSSR Acad. Sci., Kiev, USSR]

86-004029 Schindler, J. F. and U. De Vries. SCANNING CYTOPHOTOMETRY OF CARP, *CYPRINUS CARPIO* L., ERYTHROCYTE POPULATIONS: THE INFLUENCE OF SHORT-TERM HYPOXIC ENVIRONMENT AND THE RECOVERY PERIOD FOLLOWING SEVERE BLEEDING. *J. Fish Biol.* 28(6):741-752. 1986. FR 31(4)
[Inst. Anat., Univ. Regensburg, Universitatstr. 31, 8400 Regenburg, West Germany]

86-004030 Schreibman, M. P.; H. Margolis-Nunno; L. R. Halpern-Sebold; H. J. T. Goos and P. W. Perlman. THE INFLUENCE OF ANDROGEN ADMINISTRATION ON THE STRUCTURE AND FUNCTION OF THE BRAIN-PITUITARY-GONAD AXIS OF SEXUALLY

PHYSIOLOGY (CONTINUED)

86-004030 CONTINUED IMMATURE PLATYFISH, *XIPHOPHORUS MACULATUS*. *Cell Tissure Res.* 245(3): 519-524. 1986. FR 31(4)
[Dep. Biol., Brooklyn Coll., City Univ. N.Y., Brooklyn]

86-004031 Schulz, R. IMMUNOHISTOLOGICAL LOCALIZATION OF 17 ß-ESTRADIOL AND TESTOSTERONE IN THE OVARY OF THE RAINBOW TROUT (*SALMO GAIRDNERI* RICHARDSON) DURING THE PREOVULATORY PERIOD. *Cell Tissue Res.* 245(3): 629-633. 1986. FR 31(4)
[Ruhr-Univ. Bochum, Fak. Biol, AG Vergleichende Endokrinol., Bochum, West Germany]

86-004032 Schwan, T. G. INFLUENCE OF OXYGEN CONCENTRATION ON THE RESPIRATORY BEHAVIOUR OF TILAPIA (*SAROTHERODON ALCALICUS GRAHAMI*) IN LAKE NAKURU, KENYA. *Afr. J. Ecol.* 24(3):199-202. 1986. FR 31(4)
[Yale Arbovirus Res. Unit., Yale Univ. Sch. Med., 60 College St., New Haven, CT 06510]

86-004033 Selman, K.; R. A. Wallace and V. Barr. OOGENESIS IN *FUNDULUS HETEROCLITUS*. IV. YOLK-VESICLE FORMATION. *J. Exp. Zool.* 239(2):277-288. 1986. FR 31(4)
[Dep. Anat. Cell Biol., Coll. Med., Univ. Fla., Gainesville 32610]

86-004034 Shakhmatova, Y. I.; V. Y. Berger; Y. A. Lavrova; Y. V. Natochin and O. Y. Chaga. ROLE OF ELECTROLYTES IN CELLULAR OSMOREGULATION OF WHITE SEA INVERTEBRATES AND FISH. *Hydrobiol. J. (Engl. Transl. Gidrobiol. Zh.)* 22(2):54-60. 1986. FR 31(4)
[Sechenov Inst. Evol. Physiol. Biochem., USSR Acad. Sci., Leningrad, USSR]

86-004035 Sheren, S. B.; E. F. Eikenberry; D. L. Broek; M. Van der Rest; T. Doering; J. Kelly; T. Hardt and B. Brodsky. TYPE II COLLAGEN OF LAMPREY. *Comp. Biochem. Physiol. B Comp. Biochem.* 85(1):5-14. 1986. FR 31(4)
[Dep. Biochem., UMDNJ-Rutgers Med. Sch., Piscataway, NJ 08854]

86-004036 Sheridan, M. A. HORMONAL REGULATION OF LIPID METABOLISM IN DEVELOPING COHO SALMON, *ONCORHYNCHUS KISUTCH*. *Ph.D. dissertation, Univ. Calif.* 208p. 1985. From Diss. Abstr. Int. B Sci. Eng. 47(3):964. 1986. FR 31(4)

86-004037 Shields, C. A. and J. G. Eales. THYROXINE 5'-MONODEIODINASE ACTIVITY IN HEPATOCYTES OF RAINBOW TROUT, *SALMO GAIRDENRI*: DISTRIBUTION, EFFECTS OF STARVATION, AND EXOGENOUS INHIBITORS. *Gen. Comp. Endocrinol.* 63(3):334-343. 1986. FR 31(4)
[Dep. Zool., Univ. Manitoba, Winnepeg, MB R3T 2N2, Canada]

86-004038 Shimizu, I. and T. Nomura. CHANGES IN COMPOSITION OF THE MUSCLES DURING THE SPAWNING MIGRATION OF CHUM SALMON. *Sci. Rep. Hokkaido Salmon Hatchery.* No.40. p.1-10. 1986. In Japanese with English summ. FR 31(4)
[Hokkaido Salmon Hatchery, Fish. Agency, 2-2 Nakanoshima, Toyohira-Ku, Sapporo 062, Japan]

86-004039 Shuttleworth, T. J. PEPTIDERGIC CONTROL OF TRANSPORT IN THE TELEOST GILL. *IN: R. Gilles and M. Gillesbaillien (eds.). Transport Processes Iono- and Osmoregulation. Current Comparative Approaches.

PHYSIOLOGY (CONTINUED)

86-004039 CONTINUED Springer-Verlag, Berlin. 1985. p.194-205. FR 31(4)
[Univ. Exeter, Dep. Biol. Sci., Exeter Ex4 4PS, England]

86-004040 Sidell, B. C. and W. R. Driedzic. RELATIONSHIP BETWEEN CARDIAC ENERGY-METABOLISM AND CARDIAC WORK DEMAND IN FISHES. *IN: R. Gilles (ed.). Circulation, Respiration, and Metabolism: Current Comparative Approaches. Springer-Verlag, Berlin.* p. 386-401. 1985. FR 31(4)
[Dep. Zool., Univ. Me., Orono 04469]

86-004041 Singh, B. R.; M. S. Prasad and A. P. Mishra. OXYGEN UPTAKE THROUGH WATER DURING EARLY LIFE IN *CHANNA STRIATUS* (BLOCH). *Pol. Arch. Hydrobiol.* 33(1):97-104. 1986. FR 31(4)
[Dep. Zool., Bihar Univ., Muzaffarpur-842001, Bihar, India]

86-004042 Sire, J. Y. THE DEEP SCLEROBLAST OF THE REGENERATING TELEOST SCALE--A MODEL OF CELL PRODUCING A COLLAGENIC PLYWOOD. *NATO Adv. Stud. Inst. Ser. Ser. A Life Sci.* 93:465-470. 1985. FR 31(4)
[Anat. Comp. Lab., Univ. Paris 07, CNRS, F-75251 Paris 05, France]

86-004043 Smith, J. D. and R. J. F. Smith. EFFECT OF HORMONE TREATMENTS ON ALARM SUBSTANCE CELL COUNTS IN THE PEARL DACE, *SEMOTILUS MARGARITA. Can. J. Zool.* 64(2):291-295. 1986. FR 31(4)
[Dep. Biol., Univ. Saskatchewan, Saskatoon, SK S7N OWO, Canada]

86-004044 Smith, R. J. F. REDUCED ALARM SUBSTANCES CELL COUNTS IN MALE AND ANDROGEN-TREATED ZEBRA DANIOS (*BRACHYDANIO RERIO). Can. J. Zool.* 64(2):551-553. 1986. FR 31(4)
[Biol. Dep., Univ. Saskatchewan, Saskatoon, SK S7N OWO, Canada]

86-004045 Smith, R. L.; A. J. Paul and J. M. Paul. GROWTH AND FEEDING IN JUVENILE WALLEYE POLLOCK: A LABORATORY STUDY. *Alaska Sci. Conf.* 35:168. 1984. Abstract only. FR 31(4)
[Inst. Mar. Sci., Univ. Alaska, Fairbanks 99701]

86-004046 Southard, J. N.; C. R. Berry, Jr. and T. M. Farley. MULTIPLE HEMOGLOBINS OF THE CUTTHROAT TROUT, *SALMO CLARKI. J. Exp. Zool.* 239(1): 7-16. 1986. FR 31(4)
[Dep. Chem., Utah State Univ., Logan 84322]

86-004047 Stiffler, D. F.; J. B. Graham; K. A. Dickson and W. Stockmann. CUTANEOUS ION TRANSPORT IN THE FRESHWATER TELEOST *SYNBRANCHUS MARMORATUS. Physiol. Zool.* 59(4):406-418. 1986. FR 31(4)
[Biol. Sci. Dep., Calif. State Polytech. Univ., Pomona 91768]

86-004048 Suarez, R. K.; M. D. Mallet; C. Daxboeck and P. W. Hochachka. ENZYMES OF ENERGY METABOLISM AND GLUCONEOGENESIS IN THE PACIFIC BLUE MARLIN, *MAKAIRA NIGRICANS. Can. J. Zool.* 64(3):694-697. 1986. FR 31(4)
[Dep. Zool., Univ. British Columbia, Vancouver, BC V6T 2A9, Canada]

86-004049 Suzuki, K. MORPHOLOGICAL AND PHAGOCYTIC CHARACTERISTICS OF PERITONEAL EXUDATE CELLS IN TILAPIA, *OREOCHROMIS NILOTICUS* (TREWAVAS), AND CARP, *CYPRINUS CARPIO* L. *J. Fish Biol.* 29(3):349-364. 1986. FR 31(4)
[Hokkaido Fish Hatchery, Kitakashiwagi 3, Eniwa, Hokkaido 061-14, Japan]

PHYSIOLOGY (CONTINUED)

86-004050 Suzuki, Y. NEUTROPHIL CHEMOTACTIC FACTOR IN EEL BLOOD PLASMA. *Bull. Jpn. Soc. Sci. Fish.* 52(5):811-816. 1986. FR 31(4)
[Lab. Fish Physiol, Dep. Fish., Fac. Agric., Univ. Tokyo, Yayoi, Bunkyo, Tokyo 113, Japan]

86-004051 Takahashi, K.; K. Ichioka; M. Hatano and K. Zama. SEASONAL VARIATION OF SARDINE (*SARDINOPS MELANOSTICTA*) MUSCLE LIPIDS AND OTHER COMPONENTS. *Bull. Fac. Fish. Hokkaido Univ.* 36(4):248-257. 1985. FR 31(4)
[Lab. Food Chem. I, Fac. Fish., Hokkaido Univ., Hakodate 041, Japan]

86-004052 Tam, W. H.; R. J. J. Roy and R. Makaran. OVARIAN CYCLE AND PLASMA CONCENTRATIONS OF ESTROGEN AND VITELLOGENIN IN BROOK TROUT (*SALVELINUS FONTINALIS*, MITCHILL). *Can J. Zool.* 64(3):744-751. 1986. FR 31(4)
[Dep. Zool., Univ. West. Ont., London, ON N6A 5B7, Canada]

86-004053 Tamotsu, S. and Y. Morita. PHOTORECEPTION IN PINEAL ORGANS OF LARVAL AND ADULT LAMPREYS, *LAMPETRA JAPONICA*. *J. Comp. Physiol. A Sens. Neural Behav. Physiol.* 159(1):1-5. 1986. FR 31(4)
[Y. Morita: Dep. Physiol., Hamamatsu Univ. Sch. Med., 3600 Honca-cho, Hamamatsu-shi 431-31, Japan]

86-004054 Thomas, R. E.; J. A. Gharrett; M. G. Carls; S. D. Rice; A. Moles and S. Korn. EFFECTS OF FLUCTUATING TEMPERATURE ON MORTALITY, STRESS, AND ENERGY RESERVES OF JUVENILE COHO SALMON. *Trans. Am. Fish. Soc.* 115(1):52-59. 1986. FR 31(4)
[Dep. Biol. Sci., Calif. State Univ., Chico 95929]

86-004055 Thorndyke, M. C. and S. Falkmer. EVOLUTION OF GASTRO-ENTERO-PANCREATIC ENDOCRINE SYSTEMS IN LOWER VERTEBRATES. *IN: R. E. Formen; A. Gorbman; J. M. Dodd and R. Olsson (eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 379-400. FR 31(4)
[Dep. Zool., Univ. London, Royal Holloway and Bedford New Coll., Egham, Surrey TW20 OEX, UK]

86-004056 Timeyko, V. N. THE DIGESTIVE SYSTEMS OF WHITE SEA COD, *GADUS MORHUA MARISALBI*, AND LUMPFISH *CYCLOPTERUS LUMPUS*, AT DIFFERENT STAGES OF ONTOGENY. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):72-82. 1986. FR 31(4)
[Biol. Fac., Moscow State Univ., Moscow, USSR]

86-004057 Tomonaga, S. and K. Kobayashi. A SECOND CLASS OF IMMUNOGLOBULIN IN THE CARTILAGINOUS FISHES. *Dev. Comp. Immunol.* 9(4):797-802. 1985. FR 31(4)

86-004058 Tomonaga, S.; K. Kobayashi; K. Hagiwara; K. Sasaki and K. Sezaki. STUDIES ON IMMUNOGLOBULIN AND IMMUNOGLOBULIN-FORMING CELLS IN *HETERODONTUS JAPONICUS*, A CARTILAGINOUS FISH. *Dev. Comp. Immunol.* 9(4):617-626. 1985. FR 31(4)

86-004059 Tsekov, A. [BREED DIFFERENCES IN SEXUAL MATURITY OF CARP (*CYPRINUS CARPIO*) IN BULGARIA.] *Zhivotnov'd. Nauki* 22(7):70-73. 1985. In Bulgarian with English and Russian summ. From Anim. Breed. Abstr. 54(9):825. 1986. FR 31(4)

PHYSIOLOGY (CONTINUED)

86-004060 Uchida, N.; H. Anzai and E. Nishide. [PROPERTIES OF CATIONIC TRYPSIN FROM THE PYLORIC CAECA OF CHUM SALMON.] *Bull. Jpn. Soc. Sci. Fish.* 52(4):731-735. 1986. FR 31(4)
[Dep. Fish., Coll. Agric. Vet. Med., Nihon Univ., Shimouma, Setagaya, Tokyo 154, Japan]

86-004061 Ueno, R.; J. Liston and Y. Horiguchi. INTRACELLULAR DISTRIBUTION OF ENZYMES AND PARTICLE PROPERTIES OF LYSOSOMES IN MACKEREL MUSCLE TISSUE. *Bull. Jpn. Soc. Sci. Fish.* 52(5):895-900. 1986. FR 31(4)
[Fac. Fish., Mie Univ., Tsu, Mie 514, Japan]

86-004062 Van den Thillart, G. ENERGY METABOLISM OF SWIMMING TROUT (*SALMO GAIRDNERI*) OXIDATION RATES OF PALMITATE, GLUCOSE, LACTATE, ALANINE, LEUCINE AND GLUTAMATE. *J. Comp. Physiol. B Biochem. Syst. Environ. Physiol.* 156(4):511. 1986. FR 31(4)
[Dep. Anim. Physiol., State Univ. Leiden, P.O. Box 9502, 2300 RA Leiden, Netherlands]

86-004063 Vergara, R. P. and R. D. Recometa. SALINITY TOLERANCE OF NILE TILAPIA AND CRUCIAN CARP FINGERLINGS. *Freshwater Aquacult. Cent. Cent. Luzon State Univ. Tech. Rep.* No. 20. p. 30-38. 1981. FR 31(4)

86-004064 Vetter, R. D.; H. Hwang and R. E. Hodson. COMPARISON OF GLYCOGEN AND ADENINE NUCLEOTIDES AS INDICATORS OF METABOLIC STRESS IN MUMMICHOGS. *Trans. Am. Fish. Soc.* 115(1):47-51. 1986. FR 31(4)
[Scripps Inst. Oceanogr., La Jolla, CA 92093]

86-004065 Vigna, S. R. FUNCTIONAL EVOLUTION OF GASTROINTESTINAL HORMONES. *IN: R. E. Foreman; A. Gorbman; J. M. Dodd and R. Olsson (eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 401-412. FR 31(4)
[UCLA Sch. Med., Cent. Ulcer Res. Educ., Vet. Admin. Med. Cent., Los Angeles, CA]

86-004066 Villars, T. A. and M. Burdick. RAPID DECLINE IN THE BEHAVIORAL RESPONSE OF PARADISE FISH (*MACROPODUS OPERCULARIS*) TO PROSTAGLANDIN $F_{2\alpha}$ TREATMENT. *Gen. Comp. Endocrinol.* 63(2):157-161. 1986. FR 31(4)
[Wheaton Coll., Norton, MA 02766]

86-004067 Volynkin, Y. L. LEUCOCYTES AND THROMBOCYTES OF THE PERIPHERAL BLOOD SYSTEM IN THE BLUE WHITING, *MICROMESISTIUS POUTASSOU* (GADIDAE). *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):98-106. 1986. FR 31(4)

86-004068 Wagner, G. F.; M. Hampong; C. M. Park and D. H. Copp. PURIFICATION, CHARACTERIZATION, AND BIOASSAY OF TELEOCALCIN, A GLYOPROTEIN FROM SALMON CORPUSCLES OF STANNIUS. *Gen. Comp. Endocrinol.* 63(3): 481-491. 1986. FR 31(4)
[Dep. Physiol., Univ. British Columbia, Vancouver, BC V6T IW5, Canada]

86-004069 Walton, M. J. ASPECTS OF AMINO ACID METABOLISM IN TELEOST FISH. *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 47-67. FR 31(4)
[N.E.R.C. Inst. Mar. Biochem., St. Fittick's Rd., Aberdeen AB1 3RA, Scotland]

PHYSIOLOGY (CONTINUED)

86-004070 Wells, R. M. G.; R. H. McIntyre; A. K. Morgan and P. S. Davie. PHYSIOLOGICAL STRESS RESPONSES IN BIG GAMEFISH AFTER CAPTURE: OBSERVATIONS ON PLASMA CHEMISTRY AND BLOOD FACTORS. *Comp. Biochem. Physiol. A Comp. Physiol.* 84(3):565-571. 1986. FR 31(4)
[Dep. Zool., Univ. Auckland, Auckland, New Zealand]

86-004071 Westin, D. T. SERUM AND BLOOD FROM ADULT STRIPED BASS, *MORONE SAXATILIS*. *Estuaries* 1(2):126-128. 1978. FR 31(4)

86-004072 White, A. and T. C. Fletcher. SERUM CORTISOL, GLUCOSE AND LIPIDS IN PLAICE *PLEURONECTES PLATESSA* (L.) EXPOSED TO STARVATION AND AQUARIUM STRESS. *Comp. Biochem. Physiol. A Comp. Physiol.* 84(4):649-653. 1986. FR 31(4)
[NERC, Inst. Mar. Biochem., St. Fittick's Rd., Aberdeen AB1 3RA, Scotland]

86-004073 Whitman, P. A., J. A. Marshall and E. C. Keller, Jr. TONIC IMMOBILITY IN THE SMOOTH DOGFISH SHARK, *MUSTELUS CANIS* (PISCES, CARCHARHINIDAE). *Copeia* 1986(3):829-832. 1986. FR 31(4)
[Dep. Biol., W. Va. Univ., Morgantown 26506]

86-004074 Wood, C. M. and S. F. Perry. RESPIRATORY, CIRCULATORY, AND METABOLIC ADJUSTMENTS TO EXERCISE IN FISH. *IN: R. Gilles (ed.). Circulation, Respiration, and Metabolism: Current Comparative Approaches. Springer-Verlag, Berlin.* p. 2-22. 1985. FR 31(4)
[Dep. Biol., McMaster Univ., Hamilton, ON L8S 4R1, Canada]

86-004075 Wright, G. M. IMMUNOCYTOCHEMICAL STUDY OF FIBRONECTIN IN THE SEA LAMPREY, *PETROMYZON MARINUS*, AND THE ATLANTIC HAGFISH, *MYXINE GLUTINOSA*. *Cell Tissue Res.* 244(3):549-555. 1986. FR 31(4)
[Dep. Zool., Univ. Toronto, 25 Harbord St., Toronto, ON M5S 1A1, Canada]

86-004076 Wright, G. M. IMMUNOCYTOCHEMICAL DEMONSTRATION OF GROWTH HORMONE, PROLACTIN AND SOMATOSTATIN-LIKE IMMUNOREACTIVES IN THE BRAIN OF LARVAL, YOUNG ADULT AND UPSTREAM MIGRANT ADULT SEA LAMPREY, *PETROMYZON MARINUS*. *Cell Tissue Res.* 246(1):23-31. 1986. FR 31(4)
[Dep. Zool., Univ. Toronto, Toronto, ON M5S 1A1, Canada]

86-004077 Yamada, C.; S. Yamada; T. Ichikawa and H. Kobayashi. IMMUNOHISTOCHEMICAL LOCALIZATION OF UROTENSIN I AND OTHER NEUROPEPTIDES IN THE CAUDAL NEUROSECRETORY SYSTEM OF THREE SPECIES OF TELEOSTS AND TWO SPECIES OF ELASMOBRANCHS. *Cell Tissue Res.* 244(3):687-690. 1986. FR 31(4)
[H. Kobayashi: Dep. Biol., Fac. Sci., Toho Univ., Miyama 2-2-1, Funabashi, Chiba, 274 Japan]

86-004078 Yamashita, Y. and T. Aoyama. STARVATION RESISTANCE OF LARVAE OF THE JAPANESE SAND EEL *AMMODYTES PERSONATUS*. *Bull. Jpn. Soc. Sci. Fish.* 52(4):635-639. 1986. FR 31(4)
[Ocean Res. Inst., Univ. Tokyo, Nakano, Tokyo 164, Japan]

86-004079 Yancey, P. H. ORGANIC OSMOTIC EFFECTORS IN CARTILAGINOUS FISHES. *IN: R. Gilles and M. Gillesbaillien (eds.). Transport Processes Iono- and Osmoregulation. Current Comparative Approaches. Springer-Verlag,*

PHYSIOLOGY (CONTINUED)

86-004079 CONTINUED *Berlin.* 1985. p. 425-436. FR 31(4)
[Whitman Coll., Dep. Biol., Walla Walla, WA 99362]

86-004080 Yarzhombek, A. A. and T. V. Shcherbina. *IN VIVO* USE OF RADIOACTIVITY IN THE STUDY OF DIGESTION AND METABOLISM IN FISH. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):136-139. 1986. FR 31(4)
[All-Union Sci. Indus. Soc. Fish., Rybnoye, Moscow, USSR]

86-004081 Young, G. CORTISOL SECRETION IN VITRO BY THE INTERRENAL OF COHO SALMON (*ONCORHYNCHUS KISUTCH*) DURING SMOLTIFICATION: RELATIONSHIP WITH PLASMA THYROXINE AND PLASMA CORTISOL. *Gen. Comp. Endocrinol.* 63(2): 191-200. 1986. FR 31(4)
[Dep. Zool., Cancer Res. Lab., Univ. Calif., Berkely 94720]

86-004082 Yuneva, T. V.; G. E. Shul'man and M. A. Chebotareva. SEASONAL DYNAMICS OF FATTY ACID COMPOSITION OF LIPIDS IN BLACK SEA SPRAT, *SPRATTUS SPRATTUS SPRATTUS. J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):82-88. 1986. FR 31(4)
[Inst. Biol. South. Seas, Acad. Sci. USSR, Sevastopol, USSR]

86-004083 Zaccone, G. and A. Licata. HISTOENZYMORPHOLOGY AND FINE STRUCTURE OF THE IONOCYTES IN THE HEAD EPIDERMIS OF A MARINE TELEOST *XYRICHTHYS NOVACULA* L. (LABRIDAE, PISCES). *Arch. Biol.* 92(4):451-465. 1981. FR 31(4)
[Inst. Zool. Comp. Anat., Messina Univ., Italy]

86-004084 Zaccone, G. HISTOCHEMICAL STUDIES OF GLYCOPROTEINS AND ACTIVITIES OF SOME ENZYMES IN THE SKIN EPIDERMIS AND SUCKING DISC OF THE CONNEMARA CLINGFISH *LEPADOGASTER CANDOLLEI* RISSO 1810 (GOBIESOCIFORMES, PISCES). *Arch. Biol.* 92(3):317-342. 1981. FR 31(4)
[Inst. Zool. Comp. Anat., Messina Univ., Italy]

86-004085 Zaugg, W. S. and L. R. McLain. CHANGES IN BLOOD LEVELS OF NUCLEOSIDE TRIPHOSPHATES, HEMOGLOBIN AND HEMATOCRITS DURING PARR-SMOLT TRANSFORMATION OF COHO SALMON *(ONCORHYNCHUS KISUTCH). Comp. Biochem. Physiol. A Comp. Physiol.* 84(3):487-493. 1986. FR 31(4)
[NMFS, 2725 Montlake Blvd. East, Seattle, WA 98112]

86-004086 Zaugg, W. S.; J. E. Bodle; J. E. Manning and E. Wold. SMOLT TRANSFORMATION AND SEAWARD MIGRATION IN 0-AGE PROGENY OF ADULT SPRING CHINOOK SALMON (*ONCORHYNCHUS TSHAWYTSCHA*) MATURED EARLY WITH PHOTOPERIOD CONTROL. *Can. J. Fish. Aquatic Sci.* 43(4):885-888. 1986. In English with French summ. FR 31(4)
[NMFS, 2725 Montlake Blvd. East, Seattle, WA 98112]

86-004087 Zhiteneva, L. D. and M. M. Gorislavskaya. HEMATOLOGICAL PARAMETERS OF HERRING, *CLUPEA PALLASI PALLASI*, IN RELATION TO ITS PHYSIOLOGICAL CONDITIONS. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):106-116. 1986. FR 31(4)
[AzNIIRKh, Rostov-on-Don, USSR]

PHYSIOLOGY (CONTINUED)

86-004088 Zylerberg, L. COLLAGEN AND MINERALIZATION IN THE ELASMOID SCALES. *NATO Adv. Stud. Inst. Ser. Ser. A Life Sci.* 93:457-464. 1985. FR 31(4)
[Anat. Comp. Lab., Univ. Paris 07, CNRS, F-75251 Paris 05, France]

GENETICS, VARIATION STUDIES AND HYBRIDIZATION

86-004089 Angus, R. A. GEOGRAPHIC DISPERSAL AND CLONAL DIVERSITY IN UNISEXUAL FISH POPULATIONS. *Am. Nat.* 115(4)531-550. 1980. FR 31(4)

86-004090 Arai, K. EFFECT OF ALLOTRIPLOIDIZATION ON DEVELOPMENT OF THE HYBRIDS BETWEEN FEMALE CHUM SALMON AND MALE BROOK TROUT. *Bull. Jpn. Soc. Sci. Fish.* 52(5):823-829. 1986. FR 31(4)
[Kitasato Univ., Sch. Fish. Sci., Sanriku, Iwate 022-01, Japan]

86-004091 Bartley, D. M.; G. A. E. Gall and B. Bentley. PRELIMINARY DESCRIPTION OF THE GENETIC STRUCTURE OF WHITE STURGEON, *ACIPENSER TRANSMONTANUS*, IN THE PACIFIC NORTHWEST. *Dev. Environ. Biol. Fishes* 6: 105-109. 1985. FR 31(4)
[Dep. Anim. Sci., Univ. Calif., Davis 95616]

86-004092 Berdyshev, G. D. and V. V. Arkhipchuk. CHROMOSOMES OF HERBIVOROUS FISHES. *Hydrobiol. J. (Engl. Transl. Gidrobiol. Zh.)* 20(1):103-107. 1985. FR 31(4)
[Kiev State Univ., Kiev, USSR]

86-004093 Bermingham, E. MOLECULAR ZOOGEOGRAPHY OF FRESHWATER FISHES IN THE SOUTHEASTERN UNITED STATES. *Ph.D. dissertation, Univ. Ga.* 131p. 1986. From Diss. Abstr. Int. B Sci. Eng. 47(4):1404. 1986. FR 31(4)

86-004094 Blachuta, J. and A. Witkowski. NATURAL HYBRIDS *ALBURNUS ALBURNUS* (L.) X *RUTILUS RUTILUS* (L.), *ALBURNUS ALBURNUS* (L.) X *BLICCA BJOERKNA* (L.) AND *ALBURNUS ALBURNUS* (L.) X *ABRAMIS BRAMA* (L.) FROM THE ODER RIVER. *Acta Hydrobiol.* 25-26(2):189-203. 1984. FR 31(4)
[Wroclaw Univ., Mus. Nat. Hist., Sienkiewicza 21, 50-335 Wroclaw, Poland]

86-004095 Brown, K. L. POPULATION DEMOGRAPHIC AND GENETIC STRUCTURE OF PLAINS KILLIFISH FROM THE KANSAS AND ARKANSAS RIVER BASINS IN KANSAS. *Trans. Am. Fish. Soc.* 115(4):568-576. 1986. FR 31(4)
[Dep. Biol. Sci., Wichita State Univ., Wichita, KS 67208]

86-004096 Burns, E. R.; J. F. Anson; W. G. Hinson; J. L. Pipkin; M. G. Kleve and R. C. Goetz. EFFECT OF FIXATION WITH FORMALIN ON FLOW CYTOMETRIC MEASUREMENT OF DNA IN NUCLEATED BLOOD CELLS. *Aquaculture* 55(2):149-155. 1986. FR 31(4)
[Dep. Anat., Univ. Ark. Med. Sci., Little Rock 72205]

86-004097 Camacho, A.; V. Rivalta and A. Torres. [ISOZYMES IN THE STUDY OF *TILAPIA* AND CLOSELY RELATED GENERA PRESENT IN CUBA. II. ELECTROPHORETIC CHARACTERISTICS OF *OREOCHROMIS AUREUS*.] *Cienc. Biol.* No. 14. p. 73-80. 1985. FR 31(4)
[Inst. Quim. Biol. Exp., Acad. Sci. Cuba, Habana, Cuba]

GENETICS, VARIATION STUDIES AND HYBRIDIZATION (CONTINUED)

86-004098 Cassani, J. R. and W. E. Caton. EFFICIENT PRODUCTION OF TRIPLOID GRASS CARP (*CTENOPHARYNGODON IDELLA*) UTILIZING HYDROSTATIC PRESSURE. *Aquaculture* 55(1):43-50. 1986. FR 31(4)
[Lee Cty. Hyacinth Control Dist., P.O. Box 06005, Fort Myers, FL 33906]

86-004099 Cervelli, M. [FIRST RESULTS OF *DICENTRARCHUS LABRAX* GENETIC ANALYSIS.] *Oebalia* 11(1):45-48. 1985. In Italian with English summ. FR 31(4)
[Inst. Biol. Mar., Venezia, Italy]

86-004100 Cervelli, M.; A. Comparini; G. Fava and E. Rodino. [BIOCHEMICAL GENETICS OF *SPARUS AURATA* L.] *Oebalia* 11(1):49-58. 1985. In Italian with English summ. FR 31(4)
[Inst. Biol. Mar., Venezia, Italy]

86-004101 Chingjiang, W.; Y. Yuzhen and C. Rongde. GENOME MANIPULATION IN CARP (*CYPRINUS CARPIO* L.). *Aquaculture* 54(1-2):57-61. 1986. FR 31(4)
[Inst. Hydrobiol., Acad. Sin., Wuhan, China]

86-004102 Csanyi, V. and J. Gervai. BEHAVIOR-GENETIC ANALYSIS OF THE PARADISE FISH, *MACROPODUS OPERCULARIS*. II. PASSIVE AVOIDANCE LEARNING IN INBRED STRAINS. *Behav. Genet.* 16(5):553-557. 1986. FR 31(4)
[Dep. Behav. Genet., L. Eotvos Univ., God, Hungary 2131]

86-004103 Dixon, G. H.; J. M. Aiken; J. M. Jankowski; D. I. Mckenzie; R. Moir and J. C. States. ORGANIZATION AND EVOLUTION OF THE PROTAMINE GENES OF SALMONID FISHES. *NATO Adv. Stud. Inst. Ser. Ser. A Life Sci.* 101:287-315. 1985. FR 31(4)
[Health Sci. Cent., Fac. Med., Univ. Calgary, Calgary, AB T2N 1N4, Canada]

86-004104 Dominey, W. J. EFFECTS OF SEXUAL SELECTION AND LIFE HISTORY ON SPECIATION: SPECIES FLOCKS IN AFRICAN CICHLILDS AND HAWAIIAN *DROSOPHILA*. *IN: A. A. Echelle and I. Kornfield, (eds.). Evolution of Fish Species Flocks. Univ. Me. Orono Press.* 1984. p.231-249. FR 31(4)

86-004105 Don, J. and R. R. Avtalion. THE INDUCTION OF TRIPLOIDY IN *OREOCHROMIS AUREUS* BY HEAT SHOCK. *Theor. Appl. Genet.* 72(2):186-192. 1986. FR 31(4)
[Dep. Life Sci., Bar-Ilan Univ., Ramat-Gan, Israel]

86-004106 Doyle, R. W. and A. J. Talbot. ARTIFICIAL SELECTION ON GROWTH AND CORRELATED SELECTION ON COMPETITIVE BEHAVIOUR IN FISH. *Can. J. Fish. Aquatic Sci.* 43(5):1059-1064. 1986. In English with French summ. FR 31(4)
[Dep. Biol., Dalhousie Univ., Halifax, NS B3H 4J1, Canada]

86-004107 Echelle, A. A. and A. F. Echelle. EVOLUTIONARY GENETICS OF THE CHIHUAHUAN DESERT SPECIES OF *GAMBUSIA*. *Proc. Desert Fishes Counc.* 13-15: 235-236. 1985. Abstract only. In English and Spanish. FR 31(4)

86-004108 Ellingham, T. J.; E. A. Christensen, and M. B. Maddock. IN VITRO INDUCTION OF SISTER CHROMATID EXCHANGES AND CHROMOSOMAL ABERRATIONS IN PERIPHERAL LYMPHOCYTES OF THE OYSTER TOADFISH AND AMERICAN EEL. *Environ. Mutagen.* 8(4):555-569. 1986. FR 31(4)
[M. B. Maddock: Cur. Mar. Sci., Univ. N.C., Chapel Hill 27514]

GENETICS, VARIATION STUDIES AND HYBRIDIZATION (CONTINUED)

86-004109 Fujio, Y.; H. Tsuyuki and N. Sasaki. LOSS OF DUPLICATED GENE EXPRESSION IN JAPANESE CHAR, *SALVELINUS PLUVIUS*. *Tohuku J. Agric. Res.* 36(1):35-47. 1985. FR 31(4)
[Dep. Fish. Sci., Fac. Agric., Tohoku Univ., Sendai, Japan]

86-004110 Grant, W. S. BIOCHEMICAL GENETIC DIVERGENCE BETWEEN ATLANTIC, *CLUPEA HARENGUS*, AND PACIFIC, *C. PALLASI*, HERRING. *Copeia* 1986(3):714-719. 1986. FR 31(4)
[Dep. Microbiol., Univ. Cape Town, Rondebosch, 7700, South Africa]

86-004111 Hallerman, E. M.; R. O. Smitherman; R. B. Reed; W. H. Tucker and R. A. Dunham. BIOCHEMICAL GENETICS OF LARGEMOUTH BASS IN MESOSALINE AND FRESHWATER AREAS OF THE ALABAMA RIVER SYSTEM. *Trans Am. Fish. Soc.* 115(1):15-20. 1986. FR 31(4)
[Dep. Fish. Allied Aquacult., Ala. Agric. Exp. Stn., Auburn 36849]

86-004112 Hallerman, E. M.; R. A. Dunham and R. O. Smitherman. SELECTION OR DRIFT--ISOZYME ALLELE FREQUENCY CHANGES AMONG CHANNEL CATFISH SELECTED FOR RAPID GROWTH. *Trans. Am. Fish. Soc.* 115(1):60-68. 1986. FR 31(4)
[Dep. Genet., Hebrew Univ. Jerusalem, Jerusalem 91904, Israel]

86-004113 Hollebecq, M. G.; D. Chourrout; G. Wohlfarth and R. Billard. DIPLOID GYNOGENESIS INDUCED BY HEAT SHOCKS AFTER ACTIVATION WITH UV-IRRADIATED SPERM IN COMMON CARP. *Aquaculture* 54(1-2):69-76. 1986. FR 31(4)
[Dep. Hydrobiol., INRA, 78350 Jouy-en-Josas France]

86-004114 Humphries, J. M. GENETICS OF SPECIATION IN PUPFISHES FROM LAGUNA CHICHANCANAB, MEXICO. *IN: A. A. Echelle and I. Kornfield, (eds.). Evolution of Fish Species Flocks. Univ. Me. Orono Press.* 1984. p.129-139. FR 31(4)

86-004115 Johnstone, R. and R. F. Lincoln. PLOIDY ESTIMATION USING ERYTHROCYTES FROM FORMALIN-FIXED SALMONID FRY. *Aquaculture* 55(2): 145-148. 1986. FR 31(4)
[Mar. Lab., P.O. Box 101, Victoria Rd., Torry, Aberdeen AB9 8DB, Scotland]

86-004116 Kapuscinski, A. R. D. and J. E. Lannan. A CONCEPTUAL GENETIC FITNESS MODEL FOR FISHERIES MANAGEMENT. *Can. J. Fish. Aquatic Sci.* 43(8):1606-1616. 1986. In English with French summ. FR 31(4)
[Dep. Fish. Wildl., Univ. Minn., 200 Hodson Hall, 1980 Folwell Ave., St. Paul, MN 55108]

86-004117 Kelsch, S. W. and F. S. Hendricks. AN ELECTROPHORETIC AND MULTIVARIATE MORPHOMETRIC COMPARISON OF THE AMERICAN CATFISHES *ICTALURUS LUPUS* AND *I. PUNCTATUS*. *Copeia* 1986(3):646-652. 1986. FR 31(4)
[Dep. Wildl. Fish. Sci., Tex. A&M Univ., College Station 77843]

86-004118 Kim, I. and J. Lee. [A CHROMOSOMAL STUDY ON THE GENUS *COBITIS* (PISCES: COBITIDAE) IN THE SOUTHERN PART OF KOREA. *Bull. Korean Fish. Soc.* 19(3):257-264. 1986. In Korean with English summ. FR 31(4)
[Dep. Biol., Coll. Nat. Sci., Chonbuk Natl. Univ., Chonju 520, Korea]

GENETICS, VARIATION STUDIES AND HYBRIDIZATION (CONTINUED)

86-004119 Kornfield, I. and A. A. Echelle. WHO'S TENDING THE FLOCK? *IN: A. A. Echelle and I. Kornfield, (eds.). Evolution of Fish Species Flocks. Univ. Me. Orono Press.* 1984. p.251-254. FR 31(4)

86-004120 Krupka, I.; J. Sedlar and I. Stranai. [THE OCCURANCE OF THE NATURAL HYBRID *RUTILUS RUTILUS* X *CHONDROSTOMA NASUS*.] *Prace Lab. Ryb. Hydrobiol.* 5:217-229. 1985. In Czech with English summ. FR 31(4)
[Lab. Ryb. Hydrobiol., Drienova 3, 826 24 Bratislava, Czechoslovakia]

86-004121 Kulzer, K. E. and I. F. Greenbaum. ELECTROPHORETIC VARIATION AMONG SELECTED SAMPLES OF THE BLUEGILL, *LEPOMIS MACROCHIRUS*. *Tex. J. Sci.* 38(3):267-275. 1986. FR 31(4)
[Tex. Parks Wildl. Dep., Junction Star Route, Box 62, Ingram 78025]

86-004122 Leary, R. F.; F. W. Allendorf and K. L. Knudsen. SUPERIOR DEVELOPMENTAL STABILITY OF HETEROZYGOTES AT ENZYME LOCI IN SALMONID FISHES. *Am. Nat.* 124(4):540-551. 1984. FR 31(4)
[Dep. Zool., Univ. Mont., Missoula 59812]

86-004123 Li Yucheng; Li Kang; Jiang Jianqiao; Sun Qingping and Zhou Tun. [STUDIES ON THE KARYOTYPES OF CHINESE CYPRINID FISHES. X. KARYOTYPES OF FIVE SPECIES OF BARBINAE AND FOUR SPECIES OF GOBIONINAE.] *Zool. Res.* 7(2):183-189. 1986. In Chinese with English summ. FR 31(4)
[Dep. Biol., Wuhan Univ., China]

86-004124 Liem, K. F. and L. S. Kaufman. INTRASPECIFIC MACROEVOLUTION: FUNCTIONAL BIOLOGY OF THE POLYMORPHIC CICHLID SPECIES *CICHLASOMA MINCKLEYI*. *IN: A. A. Echelle and I. Kornfield, (eds.). Evolution of Fish Species Flocks. Univ. Me. Orono Press.* 1984. p.203-215. FR 31(4)

86-004125 Linhart, O.; P. Kvasnicka; V. Slechtova and J. Pokorny. INDUCED GYNOGENESIS BY RETENTION OF THE SECOND POLAR BODY IN THE COMMON CARP, *CYPRINUS CARPIO* L., AND HETEROZYGOSITY OF GYNOGENETIC PROGENY IN TRANSFERRIN AND Ldh-B^1 LOCI. *Aquaculture* 54(1-2):63-67. 1986. FR 31(4)
[Fish. Res. Inst., CS-38925 Vodnany, Czechoslovakia]

86-004126 Loudenslager, E. J.; J. N. Rinne; G. A. E. Gall and R. E. David. BIOCHEMICAL GENETIC STUDIES OF NATIVE ARIZONA AND NEW MEXICO TROUT. *Southwest. Nat.* 31(2):221-234. 1986. FR 31(4)
[Fish. Dep., Humboldt State Univ., Arcata, CA 95521]

86-004127 Ma, H. and F. Yamazaki. CHARACTERISTICS OF THE HYBRID F_1 JUVENILES BETWEEN FEMALE MASU SALMON, *ONCORHYNCHUS MASOU*, AND MALE PINK SALMON, *ONCORHYNCHUS GORBUSCHA*. *Bull. Fac. Fish. Hokkaido Univ.* 37(1):6-16. 1986. In Japanese with English summ. FR 31(4)
[Lab. Embryol. Genet., Fac. Fish., Hokkaido Univ., Hakodate 041, Japan]

86-004128 Macaranas, J. M.; M. Nakajima and Y. Fujio. GENETIC DIFFERENTIATION AMONG CULTURED POPULATIONS OF JAPANESE CHAR. *Tohuku J. Agric. Res.* 36(2):117-125. 1985. FR 31(4)
[Dep. Fish. Sci., Fac. Agric., Tohuku Univ., Sendai 980, Japan]

86-004129 Martin, M. A.; D. K. Shiozawa; E. J. Loudenslager and J. N. Jensen. ELECTROPHORETIC STUDY OF CUTTHROAT TROUT POPULATIONS IN UTAH. *Great Basin Nat.* 45(4):677-687. 1985. FR 31(4)
[Utah Cty. Health Dep., Provo, UT 84601]

GENETICS, VARIATION STUDIES AND HYBRIDIZATION (CONTINUED)

86-004130 McGlade, J. M. SELECTED ARTICLES ON FISH GENETICS: INTRODUCTION. *Can. J. Fish. Aquatic Sci.* 43(5):1027. 1986. In English with French summ. FR 31(4)
[Bedford Inst. Oceanogr., P.O. Box 1006, Darmouth, NS B2Y 4A2, Canada]

86-004131 Meffe, G. K. GENETIC CONSIDERATIONS IN MANAGEMENT OF ENDANGERED FISHES. *Proc Desert Fishes Counc.* 13-15:329-330. 1985. Abstract only. In English and Spanish. FR 31(4)

86-004132 Nakamoto, W. and P. E. De Abreu Machado. CHARACTERIZATION OF THE HEMOGLOBINS AND GLOBINS OF *SYNBRANCHUS MARMORATUS* BLOCH, 1795 (PISCES, SYNBRANCHIDAE). *Comp. Biochem. Physiol. B Comp Biochem.* 84(3):383-386. 1986. FR 31(4)
[Fac. Med. Botucatu, UNESP 18.600, Botucatu, SP, Brazil]

86-004133 Nakamoto, W.; P. E. De Abreu Machado and F. Foresti. HEMOGLOBIN PATTERNS IN DIFFERENT POPULATIONS OF *SYNBRANCHUS MARMORATUS* BLOCH, 1795 (PISCES, SYNBRANCHIDAE). *Comp. Biochem. Physiol. B Comp. Biochem.* 84(3): 377-381. 1986. FR 31(4)
[Fac. Med. Botucatu, UNESP 18.600, Botucatu, SP, Brazil]

86-004134 Nikinmaa, M. CONTROL OF RED CELL pH IN TELEOST FISHES. *Ann. Zool. Fenn.* 23(2):223-235. 1986. FR 31(4)
[Div. Physiol., Dep. Zool., Univ. Helsinki, Arkadiankatu 7, SF-00100 Helsinki, Finland]

86-004135 Okazaki, T. DISTRIBUTION, MIGRATION AND POSSIBLE ORIGINS OF GENETICALLY DIFFERENT POPULATIONS OF CHUM SALMON *ONCORHYNCHUS KETA* ALONG THE EASTERN COASTS OF NORTHERN JAPAN. *Bull. Jpn. Soc. Sci. Fish.* 52(6): 983-994. 1986. FR 31(4)
[Far Seas Fish. Res. Lab., Fish. Agency of Japan, Orido, Shimizu 424, Japan]

86-004136 Pereita, M. E. THE SITE OF ACTION OF A SEX-LINKED GENE THAT CONTROLS THE ONSET OF SEXUAL MATURATION IN THE PLATYFISH, *XIPHOPHORUS MACULATUS*. *Ph.D. dissertation, N.Y. Univ.* 185p. 1985. From Diss Abstr. Int. B Sci. Eng. 46(8)2584. 1986. FR 31(4)

86-004137 Phillips, D. P.; C. C. Krueger; G. H. Thorgaard; R. J. Wattendorf and J. E. Claussen. FISHERIES GENETICS: WHERE SHOULD WE BE GOING? *Fisheries (Bull. Am. Fish Soc.)* 11(3):14-15. 1986. FR 31(4)
[Ill. Nat. Hist. Surv., 607 E. Peabody Dr., Champaign, IL 61820]

86-004138 Phillips, R. B.; K. D. Zajicek; P. E. Ihssen and O. Johnson. APPLICATION OF SILVER STAINING TO THE IDENTIFICATION OF TRIPLOID FISH CELLS. *Aquaculture* 54(4):313-319. 1986. FR 31(4)
[Cent. Great Lakes Stud., Univ. Wis., Milwaukee]

86-004139 Popov, P. and A. Tsekov. [THE KARYOTYPE OF TENCH (*TINCA TINCA*).] *Zhivotnov'd. Nauki* 22(8):43-49. 1985. In Bulgarian with English and Russian summ. From Anim. Breed. Abstr. 54(9):825. 1986. FR 31(4)

86-004140 Rab, P. A NOTE ON THE KARYOTYPE OF THE STERLET, *ACIPENSER RUTHENUS* (PISCES, ACIPENSERIDAE). *Folia Zool.* 35(1):73-78. 1986. FR 31(4)

GENETICS, VARIATION STUDIES AND HYBRIDIZATION (CONTINUED)

86-004140 CONTINUED
[Inst. Anim. Physiol. Genet., Dep. Genet., Czech. Acad. Sci., Libechov, Czechoslovakia]

86-004141 Rab, P. KARYOTYPE OF THE EUROPEAN BURBOT, *LOTA LOTA* (GADIDAE). *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):127-131. 1986. FR 31(4)
[AN ChSSR, Lebekhov, USSR]

86-004142 Rab, P. KARYOTYPE OF THE DANUBE GOBY, *PROTERORHINUS MARMORATUS* (PISCES, GOBIIDAE). *Folia Zool.* 34(4):329-334. 1985. FR 31(4)
[Inst. Anim. Physiol. Genet., Dep. Genet., Czech. Acad. Sci., Libechov, Czechoslovakia]

86-004143 Reznick, D. GENETIC DETERMINATION OF OFFSPRING SIZE IN THE GUPPY (*POECILLIA RETICULATA*). *Am. Nat.* 120(2):181-188. 1982. FR 31(4)
[Dep. Zool., Univ. Md., College Park 20742]

86-004144 Rivlin, K. A. ASPECTS OF THE CYTOSYSTEMATICS OF CARDINALFISHES (PERCIFORMES: APOGONIDAE). *Ph.D. dissertation, Fordham Univ.* 152p. 1985. From Diss. Abstr. Int. B Eng. 46(8):2531. 1986. FR 31(4)

86-004145 Sage, R. D.; P. V. Loiselle; P. Basasibwaki and A. C. Wilson. MOLECULAR VERSUS MORPHOLOGICAL CHANGE AMONG CICHLID FISHES OF LAKE VICTORIA. *IN: A. A. Echelle and I. Kornfield, (eds.). Evolution of Fish Species Flocks. Univ. Me. Orono Press.* 1984. p.185-201. FR 31(4)

86-004146 Scott, G. K.; G. L. Fletcher and P. L. Davies. FISH ANTIFREEZE PROTEINS: RECENT GENE EVOLUTION. *Can. J. Fish. Aquatic Sci.* 43(5): 1028-1034. 1986. In English with French summ. FR 31(4)
[Dep. Biochem., Queen's Univ., Kingston, ON K7L 3N6, Canada]

86-004147 Seeb, L. W. BIOCHEMICAL SYSTEMATICS AND EVOLUTION OF THE SCORPAENID GENUS *SEBASTES*. *Ph.D. dissertation, Univ. Wash.* 192p. 1986. From Diss. Abstr. Int. B Sci. Eng. 47(4):1452-1453. 1986. FR 31(4)

86-004148 Tave, D. A QUANTITATIVE GENETIC ANALYSIS OF 19 PHENOTYPES IN *TILAPIA NILOTICA*. *Copeia* 1986(3):672-679. 1986. FR 31(4)
[Dep. Fish. Allied Aquacult., Ala. Agric. Exp. Stn., Auburn Univ., AL 36849]

86-004149 Ueda, T.; Y. Ojima; R. Sato and Y. Fukuda. KARYOLOGICAL STUDY OF THREE INTERSEXUAL RAINBOW TROUTS. *Proc. Jpn. Acad. Sci. B Phys. Biol. Sci.* 62(1):35-37. 1986. FR 31(4)
[Dep. Biol., Fac. Educ., Utsunomiya Univ., Utsunomiya 321, Japan]

86-004150 Verspoor, E. SPATIAL CORRELATIONS OF TRANSFERRIN ALLELE FREQUENCIES ON ATLANTIC SALMON (*SALMO SALAR*) POPULATIONS FROM NORTH AMERICA. *Can. J. Fish. Aquatic Sci.* 43(5):1074-1078. 1986. In English with French summ. FR 31(4)
[Fish. Res. Br., P.O. Box 5667, St. John's, NF A1C 5X1, Canada]

86-004151 Vitturi, R.; P. Carbone; M. Macaluso and E. Catalano. KARYOTYPIC VARIABILITY IN THE GADID FISH, *GAIDROPSARUS MEDITERRANEUS* (LINNAEUS, 1758). *Copeia* 1986(3):826-829. 1986. FR 31(4)
[Ist. Zool., Univ. Palermo, Via Archirafi 18, 90123 Palermo, Italy]

GENETICS, VARIATION STUDIES AND HYBRIDIZATION (CONTINUED)

86-004152 Vrijenhoek, R. C. GENETICS OF A SEXUALLY REPRODUCING FISH IN A HIGHLY FLUCTUATING ENVIRONMENT. *Am. Nat.* 113(1):17-29. 1979. FR 31(4)

86-004153 Vuorinen, J. and P. Lankinen. GENETIC DIFFERENTIATION BETWEEN VENDACE [*COREGONUS ALBULA* (L.)] POPULATIONS IN EASTERN FINLAND. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):2111-2116. 1977. FR 31(4)

86-004154 Vuorinen, J.; A. Champigneulle, K. Dabrowski; R. Eckmann and R. Rosch. ELECTROPHORETIC VARIATION IN CENTRAL EUROPEAN COREGONID POPULATIONS. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:291-298. 1986. FR 31(4)
[Dep. Biol., Univ. Joensuu, 80100 Joensuu, Finland]

86-004155 Wattendorf, R. J. RAPID IDENTIFICATION OF TRIPLOID GRASS CARP WITH A COULTER COUNTER AND CHANNELYZER. *Prog. Fish-Cult.* 48(2):125-132. 1986. FR 31(4)
[Fla. Game Fresh Water Fish. Comm., 620 South Meridian St., Tallahassee 32301]

86-004156 Wilkens, H. and K. Huppop. SYMPATRIC SPECIATION IN CAVE FISHES? STUDIES ON A MIXED POPULATION OF EPI- AND HYPOGEAN *ASTYANAX* (CHARACIDAE, PISCES). *Z. Zool. Syst. Evolutionsforsch.* 24(3):223-230. 1986. In English with German summ. FR 31(4)
[Zool. Inst., Univ. Hamburg, Martin-Luther-King-Platz 3, D-2000 Hamburg 13, West Germany]

86-004157 Wilmot, R. L. GENETIC PATTERNS IN ARCTIC COASTAL PLAIN LEAST CISCO. *Alaska Sci. Conf.* 36:220. 1985. Abstract only. FR 31(4)
[U.S. FWS, 1011 E. Tudor Rd., Anchorage, AK 99503]

86-004158 Withler, R. E.; J. D. McPhail and R. H. Devlin. ELECTROPHORETIC POLYMORPHISM AND SEXUAL DIMORPHISM IN THE FRESHWATER AND ANADROMOUS THREESPINE STICKLEBACKS (*GASTEROSTEUS ACULEATUS*) OF THE LITTLE CAMPBELL RIVER, BRITISH COLUMBIA. *Biochem. Genet.* 24(9/10):701-713. 1986. FR 31(4)
[Pac. Biol. Stn., Nanaimo, BC V9R 5K6, Canada]

86-004159 Zander, C. D. [THE JALAPA POPULATION OF THE SWORDTAIL *XIPHOPHORUS HELLERI* HECKEL (PISCES, POECILIIDAE) AS A MODEL FOR THE EVOLUTION OF THE HETEROCHROMOSOME.] *Z. Zool. Syst. Evolutionsforsch.* 24(2):129-138. 1986. In German with English summ. FR 31(4)
[Zool. Inst. Zool. Mus., Univ. Hamburg, Martin-Luther-King-Platz 3, D-2000 Hamburg 13, West Germany]

BEHAVIOR

86-004160 Arturo Acero, P. and F. Jaime Garzon. [DISCOVERY OF THE VERMILLION SNAPPER *RHOMBOPLITES AURORUBENS* (CUVIER)(PISCES:LUTJANIDAE) ON A SHALLOW CORAL REEF.] *An. Inst. Invest. Mar. Punta de Betin* 14:109-114. 1984. In Spanish with English summ. FR 31(4)
[INVEMAR, Apt. 1016, Santa Marta, Colombia]

BEHAVIOR (CONTINUED)

86-004161 Audet, C.; G. J. FitzGerald and H. Guderley. ENVIRONMENTAL CONTROL OF SALINITY PREFERENCES IN FOUR SYMPATRIC SPECIES OF STICKLEBACKS: *GASTEROSTEUS ACULEATUS, GASTEROSTEUS WHEATLANDI, PUNGITIUS PUNGITIUS* AND *APELTES QUADRACUS. J. Fish Biol.* 28(6):725-739. 1986. FR 31(4)
[Dep. Biol., Univ. Laval, PQ G1K 7P4, Canada]

86-004162 Baenninger, R. CONSEQUENCES OF AGGRESSIVE THREATS BY *BETTA SPLENDENS. Aggressive Behav.* 10(1):1-9. 1984. FR 31(4)
[Dep. Psychol., Temple Univ., Philadelphia, PA]

86-004163 Bakaneev, V. S. SOME PECULIARITIES OF BEHAVIOUR OF SLENDER SNIPEFISH FROM THE NORTHEAST ATLANTIC. *In: The Behavior of Commercial Fishes. VNIRO, Moscow, USSR.* 1985. p. 78-85. In Russian with English summ. Abstract Only. FR 31(4)

86-004164 Batal'yants, K. Y. SOME BEHAVIOURAL PECULIARITIES OF CONCENTRATIONS OF LITTLE TUNNY (*EUTHYNNUS ALLETERATUS* LINNE). *In: The Behavior of Commercial Fishes. VNIRO, Moscow, USSR.* 1985. p. 131-136. In Russian with English summ. Abstract only. FR 31(4)

86-004165 Beall, E. and M. Heland. [INTERACTIONS BETWEEN ALEVINS OF ALANTIC SALMON, *SALMO SALAR,* AND COHO SALMON, *ONCORHYNCHUS KISUTCH,* IN A SEMI-NATURAL STREAM AND THE LABORATORY.] *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2588-2590. 1983. In French. FR 31(4)

86-004166 Buisson, B.; H. Burdeyron and C. Chambert. [STUDY OF FACTORS CONTROLLING PERIODIC ACTIVITIES OF LOACH (*NOEMACHEILUS BARBATULUS*) IN NATURE AND THE LABORATORY.] *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4): 2587. 1983. Abstract Only. In French. FR 31(4)

86-004167 Cagan, R. H. BIOCHEMICAL-STUDIES OF PHYSIOLOGICAL-FUNCTION-OLFACTORY RECOGNITION IN RAINBOW-TROUT. *In: L. Bolis, R. D. Keynes and S. H. P. Maddrell, eds. Comparative Physiology of Sensory Systems. Cambridge Univ. Press, 1984.* p. 285-299. FR 31(4)
[Monell Chem. Senses Cent., 3500 Market St., Philadelphis, PA 19104]

86-004168 Caprio, J. OLFACTION AND TASTE IN FISH. *In: L. Bolis, R. D. Keynes and S. H. P. Maddrell, eds. Comparative Physiology of Sensory Systems. Cambridge Univ. Press, 1984.* p. 257-283. FR 31(4)
[Dep. Zool. Physiol., La. State Univ., Baton Rouge, LA 70803]

86-004169 Cochrane, K. L. DISTRIBUTION OF THE THREE MAJOR SPECIES OF FISH IN THE HARTBEESPOORT DAM IN RELATION TO SOME ENVIRONMENTAL FACTORS. *S. Afr. J. Zool.* 21(2):177-182. 1986. In English with Afrikaans summ. FR 31(4)
[Natl. Inst. Water Res., P.O. Box 395, Pretoria, 0001 South Africa]

86-004170 Cotelli, F.; F. Andronico; R. Bassi; M. Brivio; C. Ceccagno; S. Denisdonini; M. L. Larosa and C. L. L. Donin. STUDIES ON THE COMPOSITION, STRUCTURE AND DIFFERENTIATION OF FISH EGG CHORION. *Cell Biol. Int. Rep.* 10(6):471. 1986. FR 31(4)
[Dep. Biol., Univ. Milan, Italy]

86-004171 Crawford, J. D.; M. Hagedorn and C. D. Hopkins. ACOUSTIC COMMUNICATION IN AN ELECTRIC FISH, *POLLIMYRUS ISIDORI* (MORMYRIDAE). *J. Comp. Physiol. A Sens. Neural Behav. Physiol.* 159(3):297-310. 1986.

BEHAVIOR (CONTINUED)

86-004171 CONTINUED FR 31(4)
[Sect. Neurobiol. Behav., Seeley Mudd Hall, Cornell Univ., Ithaca, NY 14853]

86-004172 Dionne, M. CANNIBALISM, FOOD AVAILABILITY, AND REPRODUCTION IN THE MOSQUITO FISH *(GAMBUSIA AFFINIS)*: A LABORATORY EXPERIMENT. *Am. Nat.* 126(1):16-23. 1985. FR 31(4)
[Biol. Dep., Dartmouth Coll., Hanover, NH 03755]

86-004173 Douglas, R. H. PHOTOPIC SPECTRAL SENSITIVITY OF A TELEOST FISH, THE ROACH *(RUTILUS RUTILUS), WITH SPECIAL REFERENCE TO ITS ULTRAVIOLET SENSITIVITY. J. Comp. Physiol. A Sens. Neural Behav. Physiol.* 159(3):415-421. 1986. FR 31(4)
[Dep. Optom., City Univ., 311-321 Goswell Rd., London EC1V 7DD, U.K.]

86-004174 Doyle, R. T.; D. N. Wallace; R. K. Dias and J. V. Merriner. LABORATORY STUDY OF THE SWIMMING ABILITY AND BEHAVIOR OF FISH LARVAE. *N.Y. Fish Game J.* 31(2):196-216. 1986. FR 31(4)
[Va. Inst. Mar. Sci., Coll. William and Mary, Gloucester Point, VA 23062]

86-004175 Eastman, J. T. THE EVOLUTION OF NEUTRALLY BUOYANT NOTOTHENIOID FISHES: THEIR SPECIALIZATIONS AND POTENTIAL INTERACTIONS IN THE ANTARCTIC MARINE FOOD WEB. *In: W. R. Siegfried, P. R. Condy, and R. M. Laws (eds.). Antarctic Nutrient Cycles and Food Webs. Fourth SCAR Symp. Antarctic Biol.* p. 430-436. 1985. FR 31(4)
[Dep. Zool., Irvine Hall, Ohio Univ., Athens 45701]

86-004176 Eaton, R. C. and R. DiDomenico. ROLE OF THE TELEOST ESCAPE RESPONSE DURING DEVELOPMENT. *Trans. Am. Fish. Soc.* 115(1):128-142. 1986. FR 31(4)
[Dep. Environ. Popul. Organ. Biol., Univ. Colo., Boulder 80309]

86-004177 Enquist, M. and S. Jakobsson. DECISION MAKING AND ASSESSMENT IN THE FIGHTING BEHAVIOR OF *NANNACARA ANOMALA* (CICHLIDAE, PISCES). *Ethology* 72(2):143-153. 1986. FR 31(4)
[Div. Ethol., Dep. Zool., Univ. Stockholm, Sweden]

86-004178 Fausch, K. D. and R. J. White. COMPETITION AMONG JUVENILES OF COHO SALMON, BROOK TROUT, AND BROWN TROUT IN A LABORATORY STREAM, AND IMPLICATIONS FOR GREAT LAKES TRIBUTARIES. *Trans. Am. Fish. Soc.* 115(3):363-381. 1986. FR 31(4)
[Dep. Fish. Wildl. Biol., Colo. State Univ., Fort Collins 80523]

86-004179 Fay, R. R. TEMPORAL PROCESSING BY THE AUDITORY-SYSTEM OF FISHES. *In: A. Michelsen, (ed.). Time Resolution in Auditory Systems. Proc. Life Sci. Springer-Verlag, Berlin.* 1985. p. 28-57. FR 31(4)
[Dep. Psychol., Loyola Univ., Chicago, IL 60626]

86-004180 Ferno, A. and M. Holm. AGGRESSION AND GROWTH OF ATLANTIC SALMON PARR. I. DIFFERENT STOCKING DENSITIES AND SIZE GROUPS. *Fiskeridir. Skr. Ser. Havunders.* 18(3):113-122. 1986. FR 31(4)
[Inst. Fish. Biol, Univ. Bergen, Bergen, Norway]

BEHAVIOR (CONTINUED)

86-004181 Findley, J. S. and M. T. Findley. A SEARCH FOR PATTERN IN BUTTERFLY FISH COMMUNITIES. *Am. Nat.* 126(6):800-816. 1985. FR 31(4)
[Dep. Biol., Univ. New Mexico, Albuquerque 87131]

86-004182 Fuiman, L. A. BURST-SWIMMING PERFORMANCE OF LARVAL ZEBRA DANIOS AND THE EFFECTS OF DIEL TEMPERATURE FLUCTUATIONS. *Trans. Am. Fish. Soc.* 115(1):143-148. 1986. FR 31(4)
[Sch. Nat. Resourc., S.T. Dana Bldg., Univ. Mich., Ann Arbor 48109]

86-004183 Gaudin, P. and L. Caillere. SCULPINS/TROUT RELATIONS: RESULTS OBTAINED IN AN EXPERIMENTAL RIVER. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2581-2586. 1983. In French with English summ. FR 31(4)

86-004184 Gee, J. H. BUOYANCY CONTROL OF FOUR SPECIES OF ELEOTRID FISHES DURING AQUATIC SURFACE RESPIRATION. *Environ. Biol. Fishes* 16(4):269-278. 1986. FR 31(4)
[Dep. Zool., Univ. Manitoba, Winnipeg, MB R3T 2N2, Canada]

86-004185 Girsa, I. I. EFFECT OF ECOLOGICAL CONDITIONS ON CHANGES IN THE BEHAVIOR OF YEARLING NAVAGA, *ELEGINUS NAVAGA* (GADIDAE) DURING SUMMER IN THE COASTAL WATERS OF THE WHITE SEA. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):140-143. 1986. FR 31(4)
[AN SSSR IEMEZh, Moscow, USSR]

86-004186 Goodey, W. and N. R. Liley. THE INFLUENCE OF EARLY EXPERIENCE ON ESCAPE BEHAVIOR IN THE GUPPY *(POECILIA RETICULATA). Can. J. Zool.* 64(4):885-888. 1986. In English with French summ. FR 31(4)
[Dep. Zool., Monash Univ., Wellington Rd., Clayton, Vic. 3168, Australia]

86-004187 Goodey, W. and N. R. Liley. GROUPING FAILS TO INFLUENCE THE ESCAPE BEHAVIOUR OF THE GUPPY (*POECILIA RETICULATA). Anim. Behav.* 33(3): 1032-1034. 1985. FR 31(4)
[3514 W. 27 Ave, Vancouver, BC V6S 1P8, Canada]

86-004188 Grimes, C. B.; K. W. Able and R. S. Jones. TILEFISH, *LOPHOLATILUS CHAMAELEONTICEPS*, HABITAT, BEHAVIOR AND COMMUNITY STRUCTURE IN MID-ATLANTIC AND SOUTHERN NEW ENGLAND WATERS. *Environ. Biol. Fishes* 15(4):273-292. 1986. FR 31(4)
[NMFS, Southeast Fish. Cent., Panama City, FL 32407]

86-004189 Groot, C.; T. P. Quinn and T. J. Hara. RESPONSES OF MIGRATING ADULT SOCKEYE SALMON *(ONCORHYNCHUS NERKA)* TO POPULATION-SPECIFIC ODOURS. *Can. J. Zool.* 64(4):926-932. 1986. In English with French summ. FR 31(4)
[Sch. Fish., WH-10, Univ. Wash., Seattle 98195]

86-004190 Helfman, G. S. DIEL DISTRIBUTION AND ACTIVITY OF AMERICAN EELS (*ANGUILLA ROSTRATA*) IN A CAVE-SPRING. *Can. J. Fish. Aquatic Sci.* 43(8):1595-1605. 1986. In English with French summ. FR 31(4)
[Dep. Zool., Univ. Ga., Athens 30602]

86-004191 Holm, M. and A. Ferno. AGGRESSION AND GROWTH OF ATLANTIC SALMON PARR. II. DIFFERENT POPULATIONS IN PURE AND MIXED GROUPS. *Fiskeridir. Skr. Ser. Havunders.* 18(3):123-129. 1986. FR 31(4)
[Inst. Mar. Res., Bergen, Norway]

BEHAVIOR (CONTINUED)

86-004192 Ippolito, D. F. COMPETITIVE INTERACTIONS BETWEEN THE EXOTIC BLUE TILAPIA, *SAROTHERODON AUREUS*, AND LARGEMOUTH BASS, *MICROPTERUS SALMOIDES*, IN A HEATED RESERVOIR. *Ph.D. dissertation, Univ. Tex.* 127p. 1985. From Diss. Abstr. Int. B Sci. Eng. 47(2):484. 1986. FR 31(4)

86-004193 Jennings, M. R. BEHAVIORAL INTERACTIONS BETWEEN DESERT PUPFISH *(CYPRINODON MACULARIUS)* AND MOSQUITOFISH *(GAMBUSIA AFFINIS)* IN SYSTEMS OPEN TO EGRESS. *Ph.D. dissertation, Univ. Ariz.* 65p. 1986. From Diss. Abstr. Int. B Sci. Eng. 47(4):1391. 1986. FR 31(4)

86-004194 Kennedy, G. J. A. and C. D. Strange. THE EFFECTS OF INTRA- AND INTER-SPECIFIC COMPETITION ON THE DISTRIBUTION OF STOCKED JUVENILE ATLANTIC SALMON, *SALMO SALAR* L., IN RELATION TO DEPTH AND GRADIENT IN AN UPLAND TROUT, *SALMO TRUTTA* L., STREAM. *J. Fish Biol.* 29(2):199-214. 1986. FR 31(4)
[Fish. Res. Lab., Dep. Agric. Northern Ireland, 38 Castleroe Rd., Coleraine Cty., Londonderry, Northern Ireland]

86-004195 Kline, C. R.; A. H. Williams and D. L. West. ESCAPE BEHAVIOR OF *FUNDULUS SIMILIS* WHEN EXPOSED TO PREDATION BY *CALLINECTES SAPIDUS*. *J. Ala. Acad. Sci.* 57(2):92-97. 1986. FR 31(4)
[Dep. Zool.-Entomol., Ala. Agric. Exp. Stn., Auburn, AL 36849]

86-004196 Knight, N. J. MICROHABITATS AND TEMPERATURE REQUIREMENTS OF HARDHEAD *(MYLOPHARODON CONOCEPHALUS)* AND SACRAMENTO SQUAWFISH *(PTYCHOCHEILUS GRANDIS)*, WITH NOTES FOR SOME OTHER NATIVE CALIFORNIA STREAM FISHES. *Ph.D. dissertation, Univ. Calif.* 167p. 1985. From Diss. Abstr. Int. B Sci. Eng. 47(2):484. 1986. FR 31(4)

86-004197 Lea, R. N. and D. J. Miller. SHARK ATTACKS OFF THE CALIFORNIA AND OREGON COASTS: AN UPDATE 1980-84. *Mem. South. Calif. Acad. Sci.* 9:136-150. 1985. FR 31(4)

86-004198 Loadman, N. L. and G. E. E. Moodie. SIGNIFICANCE OF CANNIBALISM IN LARVAL WALLEYE (*STIZOSTEDION VITREUM*). *Can. J. Fish. Aquatic Sci.* 43(3):613-618. 1986. In English with French summ. FR 31(4)
[Dep. Biol., Univ. Winnnipeg, Winnipeg, MB R3B 2E9, Canada]

86-004199 McCosker, J. E. WHITE SHARK ATTACK BEHAVIOR: OBSERVATIONS OF AND SPECULATIONS ABOUT PREDATOR AND PREY STRATEGIES. *Mem. South. Calif. Acad. Sci.* 9:123-135. 1985. FR 31(4)
[Steinhart Aquarium, Calif. Acad. Sci., San Francisco 94118]

86-004200 McKeown, B. A. FISH MIGRATION. *Timber Press, Beaverton, OR* x+224p. 1984. Available @ $29.00. FR 31(4)

86-004201 Melvin, G. D.; M. J. Dadswell and J. D. Martin. FIDELITY OF AMERICAN SHAD, *ALOSA SAPIDISSIMA*, (CLUPEIDAE), TO ITS RIVER OF PREVIOUS SPAWNING. *Can. J. Fish. Aquatic Sci.* 43(3):640-646. 1986. In English with French summ. FR 31(4)
[M. J. Dadswell: Biol. Stn., St. Andrews, NB EOG 2XO, Canada]

86-004202 Moulton, L. L. PATTERNS OF COASTAL HABITAT USE BY ANADROMOUS FISHES IN THE VICINITY OF PRUDHOE BAY, ALASKA. *Alaska Sci. Conf.* 36:217. 1985. Abstract only. FR 31(4)
[Entrix, Inc., Suite 06, 4794 Business Park Blvd., Anchorage, AK 99503]

BEHAVIOR (CONTINUED)

86-004203 Murphy, M. L.; J. F. Thedinga; K. V. Koski and G. B. Grette. A STREAM ECOSYSTEM IN AN OLD-GROWTH FOREST IN SOUTHEAST ALASKA: PART V: SEASONAL CHANGES IN HABITAT UTILIZATION BY JUVENILE SALMONIDS. *IN W. R. Meehan; T. R. Merrell, Jr. and T. A. Hanley (eds.). Fish and Wildlife Relationships in Old-Growth Forests. (Am. Inst. Fish. Res. Biol.)* p. 89-98. 1984. Available @ $20.00 from J. W. Reintjes, Rt. 4, Box 85, Morehead City, NC 28557. FR 31(4)
[NMFS, Auke Bay, AK] Seasonal changes in distribution and habitat selection by juvenile salmonid fishes were studied in Porcupine Creek, a small coastal stream in an old-growth forest in southeast Alaska. During summer, coho salmon (*Oncorhunchus kisutch*) were distributed in both stream/estuary ecotone and freshwater reaches, and biomass (g per m^2) was directly related to total pool volume. Trout (*Salmo gairdneri* and *S. clarki*) and Dolly Varden char (*Salvelinus malma*) were not common in the stream/ estuary ecotone but were common in freshwater. Total salmonid biomass during summer was directly related to the amount of large organic debris in the stream. Tagged salmonids showed little movement during summer but redistributed themselves within the Porcupine Creek system before winter. Coho moved out of the stream/estuary ecotone to upstream freshwater areas to overwinter. In late autumn, coho used primarily large mainstream pools, backwater pools, and secondary-channel pools, and trout and char used primarily debris or undercut banks on the edges of riffles. Resource managers need to take into account seasonal changes in habitat requirements when assessing effects of logging or other land uses on fish habitat in streams.

86-004204 Nelson, D. R.; R. R. Johnson; J. N. McKibben and G. G. Pittenger. AGONISTIC ATTACKS ON DIVERS AND SUBMERSIBLES BY GRAY REEF SHARKS, *CARCHARHINUS AMBLYRHYNCHOS*: ANTIPREDATORY OR COMPETITIVE? *Bull. Mar. Sci.* 38(1):68-88. 1986. FR 31(4)
[Dep. Biol., Calif. State Univ., Long Beach 90840]

86-004205 Patterson, I. J. LIMITATION OF BREEDING DENSITY THROUGH TERRITORIAL BEHAVIOUR: EXPERIMENTS WITH CONVICT CICHLIDS, *CICHLASOMA NIGROFASCIATUM. Symp. Br. Ecol. Soc.* 25:393-405. 1985. FR 31(4)
[Dep. Zool., Univ. Aberdeen, Culterty Field Stn., Newburgh, Aberdeensh., UK]

86-004206 Poddubnyy, A. G.; L. N. Malinin and V. G. Tereshchenko. RELATIONSHIP BETWEEN FISH DISTRIBUTION IN THE PELAGIC ZONE AND THE BOTTOM RELIEF IN INLETS OF RYBINSK RESERVOIR. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(1):9-18. 1986. FR 31(4)
[Inst. Biol. Inland Waters, Acad. Sci. USSR, Borok, Yaroslavl' Prov., USSR]

86-004207 Popper, A. N. and R. R. Fay. SOUND DETECTION AND PROCESSING BY TELEOST FISH--A SELECTIVE REVIEW. *In: L. Bolis, R. D. Keynes and S. H. P. Maddrell, eds. Comparative Physiology of Sensory Systems. Cambridge Univ. Press, 1984.* p. 67-101. FR 31(4)
[Dep. Anat., Georgetown Univ., Washington, DC 20007]

86-004208 Quinn, T. P. and T. J. Hara. SIBLING RECOGNITION AND OLFACTORY SENSITIVITY IN JUVENILE COHO SALMON (*ONCORHYNCHUS KISUTCH*). *Can. J. Zool.*64(4):921-925. 1986. In English with French summ. FR 31(4)
[Sch. Fish., WH-10, Univ. Wash., Seattle 98195]

86-004209 Rehnberg, B. G. and C. B. Schreck. THE OLFACTORY L-SERINE RECEPTOR IN COHO SALMON: BIOCHEMICAL SPECIFICITY AND BEHAVIORAL RESPONSE. *J. Comp. Physiol. A Sens. Neural Behav. Physiol.* 159(1):61-67. 1986.

BEHAVIOR (CONTINUED)

86-004209 CONTINUED FR 31(4)
[Dep. Biol., Univ. Saskatchewan, Saskatoon, SK S7N 0W0, Canada]

86-004210 Riget, F. F.; K. H. Nygaard and B. Christensen. POPULATION STRUCTURE, ECOLOGICAL SEGREGATION, AND REPRODUCTION IN A POPULATION OF ARCTIC CHAR (*SALVELINUS ALPINUS*) FROM LAKE TASERSUAQ, GREENLAND. *Can. J. Fish. Aquatic Sci.* 43(5):985-992. 1986. In English with French summ. FR 31(4)
[Greenland Fish. Environ. Res. Inst., Tagensvej 135, DK-2200 Copenhagen N, Denmark]

86-004211 Schwanck, E. FILIAL CANNIBALISM IN *TILAPIA MARIAE*. *J. Appl. Ichthyol.* 2(2):65-74. 1986. In English with French and German summ. FR 31(4)
[Dep. Zool., Univ. Stockholm, 10691 Stockholm, Sweden]

86-004212 Shapiro, D. Y. INTRA-GROUP HOME RANGES IN A FEMALE-BIASED GROUP OF SEX-CHANGING FISH. *Anim. Behav.* 34(3):865-870. 1986. FR 31(4)
[Dep. Mar. Sci., Univ. Puerto Rico, Mayaguez, PR 00708]

86-004213 Shapiro, D. Y. SUBGROUP INDEPENDENCE AND GROUP DEVELOPMENT IN A SEX-CHANGING FISH. *Anim. Behav.* 34(3):716-726. 1986. FR 31(4)
[Dep. Mar. Sci., Univ. Puerto Rico, Mayaguez, PR 00708]

86-004214 Sikkel, P. C. INTRASPECIFIC CLEANING BY JUVENILE SALEMA, *XENESTIUS CALIFORNIENSIS* (PISCES: HAEMULIDAE). *Calif. Fish Game* 72(3):170-172. 1986. FR 31(4)
[Dep. Fish. Wildl., Oreg. State Univ., Corvallis 97331]

86-004215 Skurdal, J.; E. Bleken and N. C. Stenseth. CANNIBALISM IN WHITEFISH *(COREGONUS LAVARETUS)*. *Oecologia* 67(4):566-571. 1985. FR 31(4)
[Dep. Biol., Div. Zool., Univ. Oslo, P.O. Box 1050, Blindern, N-0316 Oslo 3, Norway]

86-004216 Smith, J. R. F. THE CONTROL OF FISH MIGRATION. *Springer-Verlag, Berlin* xv+243p. 1985. Available @ $49.50. FR 31(4)

86-004217 Suchanek, T. H. and P. L. Colin. RATES AND EFFECTS OF BIOTURBATION BY INVERTEBRATES AND FISHES AT ENEWETAK AND BIKINI ATOLLS. *Bull. Mar. Sci.* 38(1):25-34. 1986. FR 31(4)
[West Indies Lab., Fairleigh Dickinson Univ., Teagrel Bay, Christiansted, St. Croix, USVI 00820]

86-004218 Sutton, M. PATTERNS OF SPACING IN A CORAL REEF FISH IN TWO HABITATS ON THE GREAT BARRIER REEF. *Anim. Behav.* 33(4):1332-1337. 1985. FR 31(4)
[U.S. FWS, 847 N.E. 19th St., Suite 225, Portland, OR 97232]

86-004219 Taylor, E. B. and J. D. McPhail. PROLONGED AND BURST SWIMMING IN ANADROMOUS AND FRESHWATER THREESPINE STICKLEBACK, *GASTEROSTEUS ACULEATUS*. *Can. J. Zool.* 64(2):416-420. 1986. FR 31(4)
[Dep. Zool., Univ. British Columbia, Vancouver, BC V6T 1W5, Canada]

BEHAVIOR (CONTINUED)

86-004220 Taylor, E. B. and P. A. Larkin. CURRENT RESPONSE AND AGONISTIC BEHAVIOR IN NEWLY EMERGED FRY OF CHINOOK SALMON, *ONCORHYNCHUS TSHAWYTSCHA*, FROM OCEAN- AND STREAM-TYPE POPULATIONS. *Can. J. Fish. Aquatic Sci.* 43(3):565-573. 1986. In English with French summ. FR 31(4)
[Inst. Anim. Resour. Ecol., Univ. British Columbia, Vancouver, BC V6T 1W5, Canada]

86-004221 Thresher, R. BROOD-DIRECTED PARENTAL AGGRESSION AND EARLY BROOD LOSS IN THE CORAL REEF FISH, *ACANTHOCHROMIS POLYACANTHUS* (POMACENTRIDAE). *Anim. Behav.* 33(3):897-907. 1985. FR 31(4)
[CSIRO Div. Fish. Res., G.P.O. Box 1538, Hobart, Tasmania 7001, Australia]

86-004222 Vyskrebentsev, B. V.; N. V. Safonov and A. V. Orlov. BEHAVOIUR OF DEMERSAL FISHES ON THE INDIAN OCEAN BANKS. *In: The Behavior of Commercial Fishes. VNIRO, Moscow, USSR.* 1985. p. 136-141. In Russian with English summ. Abstract only. FR 31(4)

86-004223 Week, L. E. HABITAT SELECTIVITY OF LITTORAL ZONE FISHES AT CLEAR LAKE, CALIFORNIA. *Calif. Dep. Fish Game Inland Fish. Admin. Rep.* No. 82-7. 31p. 1982. FR 31(4)

86-004224 Zweimuller, I. DISTRIBUTION OF THE LOACH [*NEMACHILUS BARBARULUS* (L.)] AND THE GUDGEON [*GOBIO GOBIO* (L.)] IN A RIVULET NEAR VIENNA. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2628. 1983. Abstract only. FR 31(4)

LIFE HISTORY-GENERAL WORKS

86-004225 Acere, T. O. and C. C. Lindsey. AGE, GROWTH AND LIFE HISTORY OF *CULAEA INCONSTANS* (PISCES: GASTEROSTIDAE) IN DELTA MARSH LAKE MANITOBA. *Hydrobiologia* 135(1-2):35-44. 1986. FR 31(4)
[Uganda Freshwater Fish. Res. Organ., P.O. Box 343, Jinja, Uganda]

86-004226 Allen, M. A. and T. J. Hassler. SPECIES PROFILES: LIFE HISTORIES AND ENVIRONMENTAL REQUIREMENTS OF COASTAL FISHES AND INVERTEBRATES (PACIFIC SOUTHWEST). CHINOOK SALMON. *U.S. Fish Wildl. Serv. Biol. Rep.* 82(11.49). vi+26p. 1986. FR 31(4)
[Calif. Coop. Fish. Res. Unit, Humboldt State Univ., Arcata 95521]

86-004227 Alt, K. T. SHEEFISH (INCONNU), *STENODUS LEUCICHTHYS*, OF THE KOBUK AND SELAWIK RIVER AREA. *Alaska Sci. Conf.* 36:216. 1985. Abstract only. FR 31(4)
[Alaska Dep. Fish Game, 1300 College Rd., Fairbanks 99701]

86-004228 Araujo-Lima, C. A. R. M.; L. P. S. Portugal and E. G. Ferreira. FISH-MACROPHYTE RELATIONSHIP IN THE ANAVILHANAS ARCHIPELAGO, A BLACK WATER SYSTEM IN THE CENTRAL AMAZON. *J. Fish Biol.* 29(1): 1-11. 1986. FR 31(4)
[Inst. Nac. Pesq. Amazonia, CX 478, Manaus, 69 000, AM, Brazil]

86-004229 Arthington, A. H. and D. A. Milton. REPRODUCTIVE BIOLOGY, GROWTH AND AGE COMPOSTION OF THE INTRODUCED *OREOCHROMIS MOSSAMBICUS* (CICHLIDAE) IN TWO RESERVOIRS, BRISBANE, AUSTRALIA. *Environ. Biol. Fishes* 16(4):257-266. 1986. FR 31(4)
[Sch. Aust. Environ. Stud., Griffith Univ., Nathan, Qld. 4111, Australia]

LIFE HISTORY-GENERAL WORKS (CONTINUED)

86-004230 Bagarinao, T. and K. Thayaparan. THE LENGTH-WEIGHT RELATIONSHIP, FOOD HABITS AND CONDITION FACTOR OF WILD JUVENILE MILKFISH IN SRI LANKA. *Aquaculture* 55(3):241-246. 1986. FR 31(4)
[Aquacult. Dep., Southeast Asian. Fish. Dev. Cent., P.O. Box 256, Iloilo City, Philippines]

86-004231 Bailey, K. M. and C. L. Stehr. LABORATORY STUDIES ON THE EARLY LIFE HISTORY OF THE WALLEYE POLLOCK, *THERAGRA CHALCOGRAMMA* (PALLAS). *J. Exp. Mar. Biol. Ecol.* 99(3):233-246. 1986. FR 31(4)
[NMFS, 7600 Sand Point Way NE, Seattle, WA 98115]

86-004232 Bakkala, R. G. POPULATION CHARACTERISTICS AND ECOLOGY OF YELLOWFIN SOLE. *In: D. W. Hood and J. A. Calder. The Eastern Bering Sea Shelf: Oceanography and Resources.* p. 553-574. 1981. FR 31(4)

86-004233 Bertmar, G. GENERAL ECOLOGY OF PRIMITIVE FISHES. *IN: R. E. Foreman; A. Gorbman; J. M. Dodd, and R. Olsson (eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 11-29. FR 31(4)
[Dep. Ecol. Zool., Univ. Umea, Sweden]

86-004234 Best, E. A. HALIBUT ECOLOGY. *In: D. W. Hood and J. A. Calder. The Eastern Bering Sea Shelf: Oceanography and Resources.* p. 495-508. 1981. FR 31(4)
[Int. Pac. Halibut Comm., Seattle, WA] A small but important halibut fishery exists in the Bering Sea. The distribution of halibut within the area is seasonal and dependent upon climatic conditions. The fish migrate to deep water for spawning during the winter and return to shallow areas for summer feeding. The timing and extent of the summer movement are controlled by oceanographic conditions. Spawning is known to occur between Umimak Island and the Pribilof Islands at depths of 250-550 m and probably occurs at other locations within the Bering Sea. All stages of life history forms from larvae to spawning adults have been taken. Tagging studies have shown a movement of halibut from the Bering Sea into the Gulf of Alaska. A mixing of stocks of halibut within the Bering Sea is also suggested. Halibut in the commercial landings range from 7 years old and 4.5 kg to over 30 years old weighing over 100 kg. Commerical landings from the southeastern Bering Sea reached a peak of more than 7,000 mt in 1963. Current landings are about 250 mt. Historically management of the halibut resource has been the responsibility of the International Pacific Halibut Commission. Between 1963 and 1976 management was assumed by the International North Pacific Fisheries Commission, with recommendation from the International Pacific Halibut Commission to the Canadian and United States governments. With the advent of the Fisheries Conservation and Management Act of 1976, management responsibility was returned to the International Pacific Halibut Commission subject to approval by Canada and the United States.

86-004235 BIOLOGY OF THE WHITE SHARKE: A SYMPOSIUM. *Mem. South. Calif. Acad. Sci.* 9:1-150. 1985. FR 31(4)

86-004236 Blaxter, J. H. S. ONTOGENY, SYSTEMATICS AND FISHERIES. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 1-6. 1984. FR 31(4)

86-004237 Blaxter, J. H. S. and J. R. Hunter. THE BIOLOGY OF THE CLUPEOID FISHES. *Adv. Mar. Biol.* 20:1-223. 1982. FR 31(4)
[Dunstaffnage Mar. Res. Lab., Oban, Argyll, Scotland]

LIFE HISTORY-GENERAL WORKS (CONTINUED)

86-004238 Bodaly, R. A. BIOLOGY, EXPLOITATION AND CULTURE OF COREGONID FISHES IN CANADA. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:1-30. 1986. FR 31(4)
[Freshwater Inst., 501 University Crescent, Winnipeg, MB R3T 2N6, Canada]

86-004239 Bond, C. E. and C. Coombs. CHARACTERISTICS AND LIFE HISTORY OF *CATOSTOMUS WARNERENSIS*. *Proc. Desert Fishes Counc.* 13-15:40-53. 1985. In English and Spanish. FR 31(4)

86-004240 Burr, B. M. and M. L. Warren, Jr. STATUS OF THE BLUEHEAD SHINER *(NOTROPIS HUBBSI)* IN ILLINOIS. *Trans. Ill. State Acad. Sci.* 79(1-2):129-136. 1986. FR 31(4)
[Dep. Zool., South. Ill. Univ., Carbondale 62901]

86-004241 Byrne, D. M. LIFE HISTORY OF THE SPOTFIN KILLIFISH, *FUNDULUS LUCIAE* (PISCES: CYPRINODONTIDAE), IN FOX CREEK MARSH, VIRGINIA. *Estuaries* 1(4):211-227. 1978. FR 31(4)

86-004242 Cooper, J. J. AGE, GROWTH, AND FOOD HABITS OF TUI CHUB, *GILA BICOLOR*, IN WALKER LAKE, NEVADA. *Great Basin Nat.* 45(4):784-788. 1985. FR 31(4)
[Nev. Div. Environ. Prot., 201 South Fall St., Carson City 89710]

86-004243 Cowan, J. H., Jr. THE DISTRIBUTION, TRANSPORT AND AGE STRUCTURE OF DRUMS (FAMILY SCIAENIDAE) SPAWNED IN THE WINTER AND EARLY SPRING IN THE CONTINENTAL SHELF WATERS OFF WEST LOUISIANA. *Ph.D. dissertation, La. State Univ. Agri. Mech. Coll.* 201p. 1985. From Diss. Abstr. Int. B Sci. Eng. 47(3):881. 1986. FR 31(4)

86-004244 Cowen, R. K. ECOLOGY AND POPULATION BIOLOGY OF THE SHEEPHEAD, *SEMICOSSYPHUS PULCHER*. *Ph.D. dissertation, Univ. Calif. (San Diego)* 147p. 1985. From Diss. Abstr. Int. B Sci. Eng. 47(1):36. 1986. FR 31(4)

86-004245 Cunjak, R. A. and G. Power. WINTER BIOLOGY OF THE BLACKNOSE DACE, *RHINICHTHYS ATRATULUS*, IN A SOUTHERN ONTARIO STREAM. *Environ. Biol. Fishes* 17(1):53-60. 1986. FR 31(4)
[Dep. Biol., Univ. Waterloo, Waterloo, ON N2L 3G1, Canada]

86-004246 Dyatlov, M. A. ECOLOGICAL PROPERTIES OF LOCAL POPULATIONS OF THE 'RYAPUSHKA' CISCO, *COREGONUS ALBULA*, AND THE RIPUS CISCO, *C. ALBULA LADOGENESIS*. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(1):19-27. 1986. FR 31(4)

86-004247 Eloranta, A. GRAYLING [*THYMALLUS THYMALLUS* (L.)] IN THE LOWER PART OF THE RAUTALAMPI WATERCOURSE, FINNISH LAKE DISTRICT. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2555-2559. 1983. FR 31(4)

86-004248 Facey, D. E. and M. J. Van Den Avyle. SPECIES PROFILES: LIFE HISTORIES AND ENVIRONMENTAL REQUIREMENTS OF COASTAL FISHES AND INVERTEBRATES (SOUTH ATLANTIC). AMERICAN SHAD. *U.S. Fish Wildl. Serv. Biol. Rep.* 82(11.45). vi+22p. 1986. FR 31(4)
[Ga. Coop. Fish. Res. Unit, Univ. Ga., Athens 30602]

LIFE HISTORY-GENERAL WORKS (CONTINUED)

86-004249 Feldmeth, R.; D. Soltz; L. McClanahan; J. Jones and J. Irwin. NATURAL RESOURCES OF THE LARK SEEP SYSTEM (CHINA LAKE, CA) WITH SPECIAL EMPHASIS ON THE MOHAVE CHUB (*GILA BICOLOR MOHAVENSIS*). *Proc. Desert Fishes Counc.* 13-15:356-358. 1985. Abstract only. FR 31(4)

86-004250 Franzoi, P.; A. Carrieri and R. Rossi. [FIRST OBSERVATIONS ON THE POPULATION OF FLOUNDERS (*PLATICHTHYS FLESUS LUSCUS*, PALLAS, 1811) IN THE SOUTHERN AREA OF PO RIVER DELTA.] *Oebalia* 11(2):573-582. 1985. In Italian with English summ. FR 31(4)
[Ist. Zool., Univ. Ferrara, Italy]

86-004251 Gaigher, I. G. THE ECOLOGY OF A MINNOW, *BARBUS TREVELYANI* (PISCES, CYPRINIDAE) IN THE TYUME RIVER, EASTERN CAPE. *Ann. Cape Prov. Mus. Nat. Hist.* 11(1):1-19. 1975. FR 31(4)

86-004252 Galbreath, J. L. STATUS, LIFE HISTORY, AND MANAGEMENT OF COLUMBIA RIVER WHITE STURGEON, *ACIPENSER TRANSMONTANUS*. *Dev. Environ. Biol. Fishes* 6:119-125. 1985. FR 31(4)
[Oreg. Dep. Fish Wildl., 17330 S. E. Evelyn St., Clackamas 97015]

86-004253 Gilbert, C. SPECIES PROFILES: LIFE HISTORIES AND ENVIRONMENTAL REQUIREMENTS OF COASTAL FISHES AND INVERTEBRATES (SOUTH FLORIDA). FLORIDA POMPANO. *U.S. Fish Wildl. Serv. Biol. Rep.* 82(11.42). vi+14p. 1986. FR 31(4)
[Fla. State Mus., Univ. Fla., Gainesville 32611]

86-004254 Gleason, E. V. A REVIEW OF THE LIFE HISTORY OF THE RED SHINER, *NOTROPIS LUTRENSIS*, AND A REASSESSMENT OF ITS DESIRABILITY FOR USE AS LIVE BAIT IN CENTRAL AND NORTHERN CALIFORNIA. *Calif. Dep. Fish Game Inland Fish. Admin. Rep.* No. 82-1. 16p. 1982. FR 31(4)

86-004255 Gleason, E. V. A REVIEW OF THE LIFE HISTORIES OF STRIPED BASS *(MORONE SAXATILIS)* AND WHITE BASS *(M. CHRYSOPS)* HYBRIDS AND AN EVALUATION OF THEIR SUITABILITY FOR STOCKING. *Calif. Dep. Fish Game Inland Fisheries Admin. Rep.* No. 82-9. 19p. 1982. FR 31(4)

86-004256 Guelpen, L. V. HOOKEAR SCULPINS (GENUS *ARTEDIELLUS*) OF THE NORTH AMERICAN ATLANTIC: TAXONOMY, MORPHOLOGICAL VARIABILITY, DISTRIBUTION, AND ASPECTS OF LIFE HISTORY. *Can. J. Zool.* 64(3):677-690. 1986. FR 31(4)
[Huntsman Mar. Lab., St. Andrews, NB E0G 2X0, Canada]

86-004257 Hamrin, S. F. ECOLOGY OF VENDACE, *COREGONUS ALBULA*, WITH SPECIAL REFERENCE TO FACTORS IMPORTANT TO THE COMMERICIAL FISHERY. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:51-72. 1986. FR 31(4)
[Fish. Ecol. Res. Group, Inst. Limnol., Dep. Ecol., Univ. Lund, Box 65, S-221 00 Lund, Sweden]

86-004258 Hawkins, A. D.; N. M. Soofiani and G. W. Smith. GROWTH AND FEEDING OF JUVENILE COD (*GADUS MORHUA* L.). *J. Cons. Cons. Int. Explor. Mer* 42(1):11-32. 1985. FR 31(4)
[Mar. Lab., P.O. Box 101, Victoria Rd., Aberdeen AB9 8DB, Scotland]

86-004259 Hinshaw, J. M. FACTORS AFFECTING FEEDING, SURVIVAL, AND GROWTH OF LARVAL AND EARLY JUVENILE YELLOW PERCH (*PERCA FLAVESCENS* MITCHILL). *Ph.D. dissertation, N.C. State Univ.* 93p. 1986. From Diss. Abstr. Int. B Sci. Eng. 47(4):1341-1342. 1986. FR 31(4)

LIFE HISTORY-GENERAL WORKS (CONTINUED)

86-004260 Hubold, G. THE EARLY LIFE-HISTORY OF THE HIGH-ANTARCTIC SILVERFISH, *PLEURAGRAMMA ANTARCTICUM*. *In : W. R. Siegfried, P. R. Condy, and R. M. Laws (eds.). Antarctic Nutrient Cycles and Food Webs. Fourth SCAR Symp. Antarctic Biol.* p. 445-451. 1985. FR 31(4)

[Alfred-Wegener-Inst. Polarforsch., Columbus Cent., D-2850 Bremerhaven, West Germany] During the German Antarctic expeditions of 1979-1980 and 1980-1981 plankton and fish fry were collected quantitatively in the eastern and southern Weddell Sea. The samples were obtained mainly by double-oblique bongo with 300 or 500 µ nylon gauze; they carried digital flow-meters and time-depth recorders. The 1979-80 cruise yielded more than 28,000 fish larvae in 102 hauls (275 per haul), and 939 larvae were caught in 55 hauls (17 per haul) in 1980-81. More than 95% of the fish larvae belonged to *Pleuragramma antarcticum*. Maximum densities of 774 larvae m^2 and 59 larvae m^2 were found in 1979-80 and 1980-81 respectively. Length of age-group O fish ranged from 8-16 mm in January of both years, and age-group 1 fish were 25-47 mm at the same time. By the end of February, lengths of age-group O fish were 18-22 mm. Larval growth of *P. antarcticum* during the 6-week observation period was 0.24 mm d^{-1} for O age-group fish. These larvae were concentrated in the 25-50 m water layer. Changes in relative eye-size, from 5.5% in 12 mm larvae to > 8% in adults, are related to life at increasing depths. *Pleuragramma antarticum* larvae co-occurred frequently with larval channichthyids which preyed on them. A hypothetical account of the life-cycle of the species in the Weddell Sea is given.

86-004261 Jones, D. H. FOOD, PARASITES AND THE REPRODUCTIVE CYCLE OF PELAGIC REDFISH (*SEBASTES MENTELLA* TRAVIN) FROM WEATHER STATION ALFA IN THE NORTH ATLANTIC. *Bull. Mar. Ecol.* 6(9):347-370. 1970. FR 31(4)

86-004262 Kaeriyama, M. ECOLOGICAL STUDY ON EARLY LIFE OF THE CHUM SALMON, *ONCORHYNCHUS KETA* (WALBAUM). *Sci. Rep. Hokkaido Salmon Hatchery.* No. 40. p.31-92. 1986. In Japanese with English summ. FR 31(4)

[Hokkaido Salmon Hatchery, Fish Agency, 2-2 Nakanoshima, Toyohira-ku, Sapporo 062, Japan]

86-004263 Kelly, K. H. and J. R. Moring. SPECIES PROFILES: LIFE HISTORIES AND ENVIRONMENTAL REQUIREMENTS OF COASTAL FISHES AND INVERTEBRATES (NORTH ATLANTIC) ATLANTIC HERRING. *U.S. Fish Wildl. Serv. Biol. Rep.* 82(11.38). vi+22p. 1986. FR 31(4)

[Me. Coop. Fish Wildl. Res. Unit, 313 Murray Hall, Univ. Me., Orono 04469]

86-004264 Kendall, A. W., Jr.; E. H. Ahlstrom and H. G. Moser. EARLY LIFE HISTORY STAGES OF FISHES AND THEIR CHARACTERS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 11-22. 1984. FR 31(4)

86-004265 Kilambi, R. V. AGE, GROWTH AND REPRODUCTION STRATEGY OF THE SNAKEHEAD, *OPHICEPHALUS STRIATUS* BLOCH, FROM SRI LANKA. *J. Fish Biol.* 29(1): 13-22. 1986. FR 31(4)

[Dep. Zool., J. William Fulbright Coll. Arts Sci., Univ. Ark., Fayetteville 72701]

86-004266 Kobayashi, T. and S. Abe. STUDIES ON THE PACIFIC SALMON IN YURAPPU RIVER AND VOLCANO BAY. 2. ON THE MIGRATION AND GROWTH OF THE FRY DURING SEAWARD MIGRATION AND THE RETURN OF MARKED ADULTS. *Sci. Rep. Hokkaido Salmon Hatchery* No. 31. p.1-11. 1977. In Japanese with English summ. FR 31(4)

LIFE HISTORY-GENERAL WORKS (CONTINUED)

86-004267 Kotlyar, A. N. ON THE BIOLOGY OF *POLYMIXIA BERNDTI* GILBERT (POLYMIXIIDAE) IN THE WESTERN PART OF THE INDIAN OCEAN. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):120-127. 1986. FR 31(4)
[VNIRO, Moscow, USSR]

86-004268 Kucas, S. T. and T. J. Hassler. SPECIES PROFILES: LIFE HISTORIES AND ENVIRONMENTAL REQUIREMENTS OF COASTAL FISHES AND INVERTEBRATES (PACIFIC NORTHWEST). CALIFORNIA HALIBUT. *U.S. Fish WildL. Serv. Biol. Rep.* 82(11.44). vi+8p. 1986. FR 31(4)
[Calif. Coop. Fish. Res. Unit., Humboldt State Univ., Arcata 95521]

86-004269 Kucas, S. T., Jr. SPECIES PROFILES: LIFE HISTORIES AND ENVIRONMENTAL REQUIREMENTS OF COASTAL FISHES AND INVERTEBRATES (PACIFIC SOUTHWEST). NORTHERN ANCHOVY. *U.S. Fish Wildl. Serv. Biol. Rep.* 82(11.50) vi+11p. 1986. FR 31(4)
[Calif. Coop. Fish. Res. Unit, Humboldt State Univ., Arcata 95521]

86-004270 Laufle, J. C.; G. B. Pauley and M. F. Shepard. SPECIES PROFILES: LIFE HISTORIES AND ENVIRONMENTAL REQUIREMENTS OF COASTAL FISHES AND INVERTEBRATES (PACIFIC NORTHWEST). COHO SALMON. *U.S. Fish. Wildl. Serv. Biol. Rep.* 82(11.48). vi+18p. 1986. FR 31(4)
[Wash. Coop. Fish. Res. Unit, Univ. Wash., Seattle 98195]

86-004271 Leider, S. A.; M. W. Chilcote and J. J. Loch. COMPARATIVE LIFE HISTORY CHARACTERISTICS OF HATCHERY AND WILD STEELHEAD TROUT *(SALMO GAIRDNERI)* OF SUMMER AND WINTER RACES IN THE KALAMA RIVER, WASHINGTON. *Can. J. Fish. Aquatic Sci.* 43(7):1398-1409. 1986. In English with French summ. FR 31(4)
[Wash. Dep. Game, 600 North Capitol Way, Olympia 98504]

86-004272 Levings, C. D.; C. D. McAllister and B. D. Chang. DIFFERENTIAL USE OF THE CAMPBELL RIVER ESTUARY, BRITISH COLUMBIA, BY WILD AND HATCHERY-REARED JUVENILE CHINOOK SALMON *(ONCORHYNCHUS TSHAWYTSCHA). Can. J. Fish. Aquatic Sci.* 43(7):1386-1397. 1986. In English with French summ. FR 31(4)
[Dep. Fish. Oceans, West Vancouver Lab., 4160 Marine Dr., West Vancouver, BC V7V 1N6, Canada]

86-004273 Mallatt, J. RECONSTRUCTING THE LIFE CYCLE AND THE FEEDING OF ANCESTRAL VERTEBRATES. *IN: R. E. Foreman, A. Gorbman; J. M. Dodd and R. Olsson (eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 59-68. FR 31(4)
[Dep. Zool., Wash. State Univ., Pullman, WA]

86-004274 Minckley, C. O. A SUMMARY OF OBSERVATIONS ON THE HUMPBACK CHUB (*GILA CYPHA*) IN THE GRAND CANYON REGION. *Proc. Desert Fishes Counc.* 13-15:80-82. 1985. In English and Spanish. FR 31(4)

86-004275 Miya, M. and T. Nemoto. LIFE HISTORY AND VERTICAL DISTRIBUTION OF THE MESOPELAGIC FISH *CYCLOTHONE ALBA* (FAMILY GONOSTOMATIDAE) IN SAGAMI BAY, CENTRAL JAPAN. *Deep-Sea Res. A Oceanogr. Res. Pap.* 33(8): 1053-1068. 1986. FR 31(4)
[Ocean Res. Inst., Univ. Tokyo, 1-15-1, Minamidai, Nakano-ku, Tokyo 164, Japan]

LIFE HISTORY-GENERAL WORKS (CONTINUED)

86-004276 Munk, P.; V. Christensen and H. Paulson. STUDIES OF A LARVAL HERRING (*CLUPEA HARENGUS* L.) PATCH IN THE BUCHAN AREA. II. GROWTH, MORTALITY AND DRIFT OF LARVAE. *Dana* 6:11-24. 1986. FR 31(4)
[Danish Inst. Fish. Mar. Res., Charlottenlund Palace, DK-2920 Charlottenlund, Denmark]

86-004277 Naesje, T. F.; O. T. Sandlund and B. Jonsson. HABITAT USE AND GROWTH OF AGE-0 WHITEFISH, *COREGONUS LAVARETUS*, AND CISCO, *C. ALBULA*. *Environ. Biol. Fishes* 15(4):309-314. 1986. FR 31(4)
[Dir. Prot. Manage., Fish. Reg. Div., Tungasletta 2, N-7000 Trondheim, Norway]

86-004278 Nagoshi, M. GROWTH AND SURVIVAL IN LARVAL STAGE OF THE GENUS *LAMPROLOGUS* (CICHLIDAE) IN LAKE TANGANYIKA. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2663-2670. 1983. FR 31(4)

86-004279 Papaconstantinou, C. THE LIFE HISTORY OF ROCK GURNARD (*TRIGLOPORUS LASTOVIZA*, BRUNN. 1768) IN THE SARONIKOS GULF. *J. Appl. Ichthyol.* 2(2):75-86. 1986. In English with French and German summ. FR 31(4)
[Minist. Res. Technol., Natl. Cent. Mar. Res., Gr.-16604 Hellinikon, Athens, Greece]

86-004280 Raid, T. THE REPRODUCTION AREAS AND ECOLOGY OF BALTIC HERRING IN THE EARLY STAGES OF DEVELOPMENT FOUND IN THE SOVIET ZONE OF THE GULF OF FINLAND. *Finn. Fish. Res.* No. 6. p. 20-34. 1985. FR 31(4)
[Tallinn Dep. Baltic Fish. Res. Inst., Opteegi 1-2, Tallinn, 200001 Estonian SSR, USSR]

86-004281 Razarihelisoa, M. [SOME MUGILIDAE OF MADAGASCAR. CONSIDERATION OF THE ETHOLOGY OF *MUGIL ROBUSTUS* GUNTHER FOUND IN THE MARINE COASTAL BRACHISHWATER ZONE.] *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4): 2676-2679. 1983. In French. FR 31(4)

86-004282 Russell, T. R. BIOLOGY AND LIFE HISTORY OF THE PADDLEFISH--A REVIEW. *North Cent. Div. Am. Fish. Soc. Spec. Publ.* No. 7. p.2-20. 1986. Available at $9.00 ($11.00 Foreign) from Joe G. Dillard, 1110 College Ave., Columbia, MO 65201. FR 31(4)
[Mo. Dep. Conserv., Columbia 65201]

86-004283 Saint-Paul, U. [SOME ASPECTS ABOUT THE GERMAN FISHERY ON YOUNG EEL FOR STOCKING PURPOSES.] *Arch. Fischereiwiss.* 28(2-3):123-133. 1977. In German with English summ. FR 31(4)

86-004284 Schultz, D. L. COMPARATIVE REPRODUCTIVE ECOLOGY OF THE JOHNNY DARTER *(ETHEOSTOMA NIGRUM). Ph.D. dissertation, Univ. Mich.* 284p. 1986. From Diss. Abstr. Int. B Sci. Eng. 47(3):905-906. 1986. FR 31(4)

86-004285 Serangeli, C.; G. Della Seta; V. Hull and A. Mariani. [CONTRIBUTIONS TO THE BIOLOGY OF YOUNG *TRIGLA LUCERNA* (PISCES, SCORPAENIFORMES).] *Oebalia* 11(3):837-838. 1985. In Italian with English summ. FR 31(4)
[Lab. Cent. Idrobiol., Viale del Caravaggio, 107-00147 Rome, Italy]

LIFE HISTORY-GENERAL WORKS (CONTINUED)

86-004286 Sheridan, P. F.; J. A. Browder and J. E. Powers. ECOLOGICAL INTERACTIONS BETWEEN PENAEID SHRIMP AND BOTTOMFISH ASSEMBLAGES. *IN: Penaeid Shrimps--Their Biology and Management. 1984. Fishing News Books Ltd., Farnham, England.* p.235-257.
[Sea Fish. Cent., NMFS, Miami, FL 33149]

86-004287 Sigler, W. F.; S. Vigg and M. Bres. LIFE HISTORY OF THE CUI-CUI, *CHASMISTES CUJUS* COPE, IN PYRAMID LAKE, NEVADA: A REVIEW. *Great Basin Nat.* 45(4):571-603. 1985. FR 31(4)
[W. F. Sigler & Assoc. Inc., 309 East 200 South, Logan, UT 84321]

86-004288 Smith, G. B. THE BIOLOGY OF WALLEYE POLLOCK. *In: D. W. Hood and J. A. Calder. The Eastern Bering Sea Shelf: Oceanography and Resources.* p. 527-551. 1981. FR 31(4)
[NMFS, 2725 Montlake Blvd. East, Seattle, WA 98112]

86-004289 Sturm, M. G. de L. OBSERVATIONS ON THE BIOLOGY OF CATFISH *(AUCHENOGLANIS)* IN THE MAN-MADE TIGA LAKE IN KANO STATE. *Nigerian Field* 50(3-4):75-78. 1985. FR 31(4)
[Inst. Mar. Affr., P.O. Box 3160, Caranage, Trinidad]

86-004290 Sutter, F. C.; R. S. Waller and T. D. McIlwain. SPECIES PROFILES: LIFE HISTORIES AND ENVIRONMENTAL REQUIREMENTS OF COASTAL FISHES AND INVERTEBRATES (GULF OF MEXICO). BLACK DRUM. *U.S. Fish Wildl. Serv. Biol. Rep.* 82(11.51). vi+11p. 1986. FR 31(4)
[Gulf Coast Res. Lab., East Beach Blvd., Ocean Springs, MS 39564]

86-004291 Taber, C. A.; B. A. Taber and M. S. Topping. POPULATION STRUCTURE, GROWTH AND REPRODUCTION OF THE ARKANSAS DARTER, *ETHEOSTOMA CRAGINI* (PERCIDAE). *Southwest. Nat.* 31(2):207-214. 1986. FR 31(4)
[Dep. Biol., Southwest Mo. State Univ., Springfield 65804]

86-004292 Trendall, J. T. COVARIATION OF LIFE HISTORY TRAITS IN THE MOSQUITOFISH, *GAMBUSIA AFFINIS. Am. Nat.* 119(6):774-783. 1982. FR 31(4)
[Dep. Zool., Univ. West. Aust., Nedlands, WA 6009, Australia]

86-004293 Unwin, M. J. STREAM RESIDENCE TIME, SIZE CHARACTERISTICS, AND MIGRATION PATTERNS OF JUVENILE CHINOOK SALMON *(ONCORHYNCHUS TSHAWYTSCHA)* FROM A TRIBUTARY OF THE RAKAIA RIVER, NEW ZEALAND. *N.Z. J. Mar. Freshwater Res.* 20(2):231-252. 1986. FR 31(4)
[Fish. Res. Div., P.O. Box 8324, Riccarton, Christchurch, New Zealand]

86-004294 Vigg, S. ECOLOGY OF THE NEVADAN RELICT DACE. *Proc. Desert Fishes Counc.* 13-15:162-163. 1985. Abstract only. FR 31(4)

86-004295 Vila, I. and D. Soto. ATHERINIDAE (PISCES) OF RAPEL RESERVOIR, CHILE. *Int. Ver. Theor. Agnew. Limnol. Verh.* 21(3):1334-1338. 1980. FR 31(4)

86-004296 Viljanen, M. BIOLOGY, PROPAGATION, EXPLOITATION AND MANAGEMENT OF VENDACE (*COREGONUS ALBULA* L.) IN FINLAND. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:73-97. 1986. FR 31(4)
[Univ. Joensuu, Karelian Inst., Sect. Ecol., SF-80101 Joensuu, Finland]

LIFE HISTORY-GENERAL WORKS (CONTINUED)

86-004297 Weber, W. and A. A. Jothy. OBSERVATIONS ON THE FISH *NEMIPTERUS* SPP. (FAMILY: NEMIPTERIDAE) IN THE COASTAL WATERS OF EAST MALAYSIA. *Arch. Fischereiwiss.* 28(2-3):109-122. 1977. In English with German summ. FR 31(4)

86-004298 Wespestad, V. G. and L. H. Barton. DISTRIBUTION, MIGRATION, AND STATUS OF PACIFIC HERRING. *In: D. W. Hood and J. A. Calder. The Eastern Bering Sea Shelf: Oceanography and Resources.* p. 509-525. 1981. FR 31(4)
[NMFS, 2725 Montlake Blvd. East, Seattle, WA 98112]

86-004299 Whiteside, L. A. and B. M. Burr. ASPECTS OF THE LIFE HISTORY OF THE TADPOLE MADTOM, *NOTURUS GYRINUS* (SILURIFORMES: ICTALURIDAE), IN SOUTHERN ILLINOIS. *Ohio J. Sci.* 86(4):153-160. 1986. FR 31(4)
[Dep. Zool., South. Ill. Univ., Carbondale 62901]

86-004300 Yoshida, H. and H. Yamaguchi. DISTRIBUTION AND FEEDING HABITS OF THE PELEGIC SMOOTH LUMPSUCKER, *APTOCYCLUS VENTRICOSUS* (PALLAS), IN THE ALEUTIAN BASIN. *Bull. Fac. Fish. Hokkaido Univ.* 36(4):200-209. 1985. FR 31(4)
[Hokkaido Kushiro Fish. Exp. Stn., Hamacho, Kushiro, Hokkaido 085, Japan]

86-004301 Yruretagoyena Ugalde, C. [RECENT STUDIES OF THE FISHES FROM INLAND WATERS OF BAJA CALIFORNIA, WITH SPECIAL REFERENCE TO THE SAN PEDRO MARTIR TROUT (*SALMO NELSONI*), EVERMAN 1908.] *Proc. Desert Fishes Counc.* 13-15:164-200. 1985. In Spanish with English summ. FR 31(4)

86-004302 Yuuki, Y. and H. Kitazawa. [*BERRYTEUTHIS MAGISTER* IN THE SOUTHWESTERN JAPAN SEA.] *Bull. Jpn. Soc. Sci. Fish.* 52(4):665-672. 1986. In Japanese with English summ. FR 31(4)
[Kashima Br., Shimane Pref. Fish. Exp. Stn., Kashima, Yatsuka, Shimane 690-03, Japan]

POPULATION STUDIES, PRODUCTION, RECRUITMENT, ETC.

86-004303 Abrams, P. A. RECRUITMENT, LOTTERIES, AND COEXISTENCE IN CORAL REEF FISH. *Am. Nat.* 123(1):44-55. 1984. FR 31(4)
[Dep. Ecol. Behav. Biol., Univ. Minn., Minneapolis 55455]

86-004304 Anderson, G. R. V.; A. H. Ehrlich; P. R. Ehrlich; J. D. Roughgarden; B. C. Russell and F. H. Talbot. THE COMMUNITY STRUCTURE OF CORAL REEF FISHES. *Am. Nat.* 117(4):476-495. 1981. FR 31(4)

86-004305 Arbault, S.; P. Camus and C. le Bec. [ESTIMATION OF THE COMMON SOLE (*SOLEA VULGARIS*, QUENSEL 1806) SPAWNING STOCK BY EGG SURVEY IN THE BAY OF BISCAY. *J. Appl. Ichthyol.* 2(4):145-156. 1986. In French with English and German summ. FR 31(4)
[Inst. Francais Rech. Explor. Mer, B.P. 1049-44037 Nantes Cedex 01, France]

86-004306 Ardizzone, G. D. EEL POPULATION STRUCTURE, DYNAMICS AND FISHING YIELD IN A MEDITERRANEAN COASTAL LAGOON. *Oebalia* 11(2):547-560. 1985. In English with Italian summ. FR 31(4)
[Dep. Biol. Anim. dell'Uomo, Univ. "La Sapienza" Rome, Italy]

POPULATION STUDIES, PRODUCTION, RECRUITMENT, ETC. (CONTINUED)

86-004307 Benech, V. and J. Quensiere. [DYNAMICS OF THE FISH POPULATION IN THE LAKE TCHAD REGION.] *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4): 2650-2654. 1983. In French. FR 31(4)

86-004308 Bowering, W. R. and D. G. Parsons. DIEL VARIABILITY IN TRAWL CATCHES OF GREENLAND HALIBUT FROM THE CHANNELS OFF COASTAL LABRADOR AND IMPLICATIONS FOR RESOURCE ASSESSMENT. *N. Am. J. Fish. Manage.* 6(2): 149-155. 1986. FR 31(4)
[Dep. Fish. Oceans, P.O. Box 5667, St. John's, NF A1C 5X1, Canada]

86-004309 Brander, K. M. and R. R. Dickson. AN INVESTIGATION OF THE LOW LEVEL OF FISH PRODUCTION IN THE IRISH SEA. *Rapp. P. V. Reun. Cons. Int. Explor. Mer.* 183:234-242. 1984. FR 31(4)

86-004310 Brett, J. R. PRODUCTION ENERGETICS OF A POPULATION OF SOCKEYE SALMON, *ONCORHYNCHUS NERKA. Can. J. Zool.* 64(3):555-564. 1986. FR 31(4)
[Pac. Biol. Stn., Nanaimo, BC V9R 5K6, Canada]

86-004311 Carlander, K. D. RISE AND COLLAPSE OF AN INTRODUCED FISH, *MORONE MISSISSIPPIENSIS*, IN CLEAR LAKE, IOWA. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):2051-2054. 1977. FR 31(4)

86-004312 Carlson, H. R. RESTRICTED YEAR-CLASS STRUCTURE AND RECRUITMENT LAG WITHIN A DISCRETE SCHOOL OF YELLOWTAIL ROCKFISH. *Trans. Am. Fish. Soc.* 115(3):490-492. 1986. FR 31(4)
[NMFS, P.O. Box 210155, Auke Bay, AK 99821]

86-004313 Carrillo De Albornoz, C. and E. Gonzalez. [ESTIMATION OF 0-AGE GROUP SURVIVAL OF THE BIAJAIBA (*LUTJANUS SYNAGRIS*) IN THE SOUTHWESTERN CUBAN SHELF.] *Rev. Cubana Invest. Pesq.* 6(4):52-65. 1981. In Spanish with English summ. FR 31(4)
[Cent. Invest. Pesq., Havana, Cuba]

86-004314 Chadwick, E. M. P. and R. G. Randall. A STOCK-RECRUITMENT RELATIOHSHIP FOR ATLANTIC SALMON IN THE MIRAMICHI RIVER, NEW BRUNSWICK. *N. Am. J. Fish. Manage.* 6(2):200-203. 1986. FR 31(4)
[Dep. Fish. Oceans, P.O. Box 5030, Moncton, NB E1C 9B6, Canada]

86-004315 Cook, R. M. and D. W. Armstrong. CHANGES IN CATCHABILITY OF COD, HADDOCK, AND WHITING ASSOCIATED WITH THE SCOTTISH SEINE-NET FLEET. *J. Cons. Cons. Int. Explor. Mer* 42(2):171-178. 1985. FR 31(4)
[DAFS Mar. Lab., P.O. Box 101, Victoria Rd., Aberdeen AB9 8DB, Scotland]

86-004316 Craig, J. F. and K. Smiley. WALLEYE, *STIZOSTEDION VITREUM*, AND NORTHERN PIKE, *ESOX LUCIUS*, POPULATIONS IN THREE ALBERTA LAKES. *J. Fish Biol.* 29(1):67-85. 1986. FR 31(4)
[Dep. Fish. Oceans, Freshwater Inst., 501 University Crescent, Winnipeg, MB R3T 2N6, Canada]

86-004317 Diamant, A.; A. Ben Tuvia; A. Baranes and D. Golani. AN ANALYSIS OF ROCKY COASTAL EASTERN MEDITERRANEAN FISH ASSEMBLAGES AND A COMPARISON WITH AN ADJACENT SMALL ARTIFICIAL REEF. *J. Exp. Mar. Biol. Ecol.* 97(3):269-285. 1986. FR 31(4)
[Mar. Lab., P.O. Box 101, Victoria Rd., Aberdeen AB9 8DB, Scotland]

POPULATION STUDIES, PRODUCTION, RECRUITMENT, ETC. (CONTINUED)

86-004318 Domashenko, G. P.; A. N. Mikhajlyuk; A. K. Chashchin; V. A. Shlyakhov and G. S. Yur'ev. CONTEMPORARY STATE OF FISHING STOCKS OF ANCHOVY, SCAD, SPRAT AND WHITING IN THE BLACK SEA. *In: Oceanographic and Fishery Investigations of the Black Sea. VNIRO, Moscow, USSR.* p.87-100. 1985. In Russian with English summ. FR 31(4)

86-004319 Donald, D. B. and D. J. Alger. DYNAMICS OF UNEXPLOITED AND LIGHTLY EXPLOITED POPULATIONS OF RAINBOW TROUT (*SALMO GAIRDNERI*) FROM COASTAL, MONTANE, AND SUBALPINE LAKES IN WESTERN CANADA. *Can. J. Fish. Aquatic Sci.* 43(9):1733-1741. 1986. In English with French summ. FR 31(4)
[Inland Waters Div., 1st Floor Motherwell Bldg., 1901 Victoria Ave., Regina, SK S4P 3R4, Canada]

86-004320 Dushchenko, V. V. ON FORMATION OF COMMERCIAL CONCENTRATIONS OF ROCK GRENADIER IN THE NORTH ATLANTIC. *In: The Behavior of Commercial Fishes. VNIRO, Moscow, USSR.* 1985. p. 141-154. In Russian with English summ. Abstract only. FR 31(4)

86-004321 Dygert, P. H. MANAGEMENT IMPLICATIONS OF VARIABILITY IN REPRODUCTION AND GROWTH OF COMMERCIAL MARINE FISHES. *Ph.D. dissertation, Univ. Wash.* 290p. 1986. From Diss. Abstr. Int. B Sci. Eng. 47(4):1389. 1986. FR 31(4)

86-004322 Ehrhardt, N. M. COMPARATIVE BIOLOGY OF THE WORLD HAKES GENUS *MERLUCCIUS. Ph.D. dissertation, Univ. Wash.* 594p. 1986. From Diss. Abstr. Int. B Sci. Eng. 47(4):1370. 1986. FR 31(4)

86-004323 Eliassen, J. [INVESTIGATIONS ON THE DISTRIBUTION, OCCURRENCE AND POPULATION STRUCTUE OF THE ROUNDNOSE GRENADIER (*CORYPHAENOIDES RUPESTRIS* GUNNERUS) IN THE COASTAL WATERS OFF TRONDELAG, NORWAY.] *Fisken Havet* 1986. (1):1-19. 1986. In Norwegian with English summ. FR 31(4)
[Inst. Fiskerifag, Univ. Tromso, Postboks 3083, 9001 Tromso, Norway]

86-004324 Essig, R. J. and C. F. Cole. METHODS OF ESTIMATING LARVAL FISH MORTALITY FROM DAILY INCREMENTS IN OTOLITHS. *Trans. Am. Fish. Soc.* 115(1):34-40. 1986. FR 31(4)
[NMFS, F/S21, 3300 Whitehaven St., NW, Washington, DC 20235]

86-004325 Fabrizio, M. C. DISCRIMINATION AND CLASSIFICATION OF STRIPED BASS STOCKS. *Ph.D. dissertation, Univ. R.I.* 161p. 1985. From Diss. Abstr. Int. B Sci. Eng. 47(3):881. 1986. FR 31(4)

86-004326 Favro, L. D.; P. K. Kuo and J. F. McDonald. CAPTURE-RECAPTURE EXPERIMENT WITH FLY-CAUGHT BROWN (*SALMO TRUTTA*) AND RAINBOW TROUT (*S. GAIRDNERI). Can. J. Fish. Aquatic Sci.* 43(4):896-899. 1986. In English with French summ. FR 31(4)
[Dep. Physics, Wayne State Univ., Detroit, MI 48202]

86-004327 Fernando, C. H. and J. Holcik. THE NATURE OF FISH COMMUNITIES, AN IMPORTANT FACTOR INFLUENCING FISHERY POTENTIAL AND YIELDS OF LAKES AND RESERVOIRS: A SHORT SUMMARY OF THE CONCEPT AND ITS APPLICATIONS. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2498-2501. 1983. FR 31(4)

POPULATION STUDIES, PRODUCTION, RECRUITMENT, ETC. (CONTINUED)

86-004328 Galuzo, A. G. [A NUMERICAL ANALYSIS OF DISTRIBUTION OF AZOV ANCHOVY IN RELATION TO BIOMASS ASSESSMENT.] *IN: Mathematical and Informational Requirements for Natural Resource Studies. VNIRO*, 1985. p. 105-112. In Russian with English summ. FR 31(4)

86-004329 Galuzo, A. G. and A. G. Artemov. [ASSESSMENT OF MEDITERRANEAN SPRAT BIOMASS FROM ACOUSTIC SURVEY DATA.] *IN: Mathematical and Informational Requirements for Natural Resource Studies. VNIRO*, 1985. p. 129-135. In Russian with English summ. FR 31(4)

86-004330 Galvis Cortes, O. D. [ESTIMATION OF GROWTH AND MORTALITY OF SEA CATFISH *ARIOPSIS BONILLAI* (MILES, 1945) (PISCES: SILURIFORMES: ARIIDAE), IN THE CIENAGA GRANDE OF SANTA MARTA, COLOMBIA] *An. Inst. Invest. Mar. Punta de Betin* 14:67-83. 1984. In Spanish with English summ. FR 31(4)
[INVEMAR, Apt. 1016, Santa Marta, Colombia]

86-004331 Gerdeaux, D. [EVOLUTION OF POPULATIONS OF PERCH AND PIKEPERCH IN LAKE CRETEIL.] *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2605-2610. 1983. In French. FR 31(4)

86-004332 Grossman, G. D. DYNAMICS AND ORGANIZATION OF A ROCKY INTERTIDAL FISH ASSEMBLAGE: THE PERSISTENCE AND RESILIENCE OF TAXOCENE STRUCTURE. *Am. Nat.* 119(5):611-637. 1982. FR 31(4)
[Sch. For. Resour., Univ. Ga., Athens 30602]

86-004333 Grossman, G. D. LONG TERM PERSISTENCE IN A ROCKY INTERTIDAL FISH ASSEMBLAGE. *Environ. Biol. Fishes* 15(4):315-317. 1986. FR 31(4)
[Sch. For. Resour., Univ. Ga., Athens 30602]

86-004334 Gusev. I. A. and E. S. Lugarev. [ESITMATED NATURAL FISH MORTALITY.] *IN: Mathematical and Informational Requirements for Natural Resource Studies. VNIRO*, 1985. p. 161-166. In Russian with English summ. FR 31(4)

86-004335 Guzuir, J. F. PRELIMINARY CLASSIFICATION AND EVALUATION OF FISH PRODUCTION IN SMALL WATER BODIES OF POLAND. *Hydrobiol. J. (Engl. Transl. Gidrobiol. Zh.)* 22(2):20-26. 1986. FR 31(4)

86-004336 Hakkari, L. and P. Bagge. ON THE FRY DENSITIES OF PIKE (*ESOX LUCIUS* L.) IN LAKE SAIMAA, FINLAND. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2560-2565. 1983. FR 31(4)

86-004337 Hankin, D. G. and M. C. Healey. DEPENDENCE OF EXPLOITATION RATES FOR MAXIMUM YIELD AND STOCK COLLAPSE ON AGE AND SEX STRUCTURE OF CHINOOK SALMON (*ONCORHYNCHUS TSHAWYTSCHA*) STOCKS. *Can. J. Fish. Aquatic Sci.* 43(9):1746-1759. 1986. FR 31(4)
[Dep. Fish. Wildl., Oreg. State Univ., Corvallis 97330]

86-004338 Herbold, B. STRUCTURE OF AN INDIANA STREAM FISH ASSOCIATION: CHOOSING AN APPROPRIATE MODEL. *Am. Nat.* 124(4):561-572. 1984. FR 31(4)
[Div. Wildl. Fish. Biol., Univ. Calif., Davis 95616]

86-004339 Hickman, T. J. A SUMMARY OF THE PROPOSED LISTING ACTIVITIES FOR THE BONNEVILLE CUTTHROAT TROUT. *Proc. Desert Fishes Counc.* 13-15:101. 1985. FR 31(4)

POPULATION STUDIES, PRODUCTION, RECRUITMENT, ETC. (CONTINUED)

86-004340 Hobson, E. S. THE STRUCTURE OF REEF FISH COMMUNITIES IN THE HAWAIIAN ARCHPELAGO. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 1. p.101-122. 1984. FR 31(4)
[NMFS, 3150 Paradise Dr., Tiburon, CA 94920]

86-004341 Iwasa, Y. SIZE DISTRIBUTION IN A BIOLOGICAL POPULATION: A THEORETICAL ANALYSIS. *Int. Ver. Theor. Agnew. Limnol. Verh.* 21(3): 1304-1308. 1980. FR 31(4)

86-004342 Jensen, J. W. REMARKABLE YIELD OF BROWN TROUT (*SALMO TRUTTA* L.) IN LAKES NEAR THE HARDANGER GLACIER, NORWAY. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):2070-2075. 1977. FR 31(4)

86-004343 Kalnim, V. V.; O. V. Kalnina; A. K. Chashchin and G. N. Novoselova. STRUCTURE OF ANCHOVY POPULATIONS IN THE BLACK AND AZOV SEAS UNDER ANTHROPOGENIC EFFECTS. *In: Oceanographic and Fishery Investigations of the Black Sea. VNIRO, Moscow, USSR.* p.62-70. 1985. In Russian with English summ. FR 31(4)

86-004344 Kazakov, R. CONDITION OF FISH STOCK, YIELD TO FISHERY AND MIGRATIONS OF ATLANTIC SALMON FROM RIVERS OF THE USSR TO THE BALTIC SEA. *Finn. Fish. Res.* No. 6. p. 43-54. 1985. FR 31(4)
[GosNIORH, 199053, Naberegnaja Makarova, 26, Leningrad, USSR]

86-004345 Kirchhofer, A. and P. Tschumi. AGE STRUCTURE AND GROWTH OF COREGONID FISH POPULATIONS IN LAKE THUN. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:303-318. 1986. In English with German summ. FR 31(4)
[Zool. Inst., Univ. Bern, Baltzerstr. 3, CH-3012 Bern, Switzerland]

86-004346 Kraiem, M. M.; Y. Bouvet; E. Pattee and H. Persat. [THE POPULATIONS OF BARBEL, *BARBUS CALLENSIS* VALENCIENNES 1842, FROM THREE RIVERS OF NORTH-WESTERN TUNISIA: A PRELIMINARY STUDY.] *Arch. Hydrobiol.* 107(3):411-422. 1986. In French with English summ. FR 31(4)
[Dep. Sci. Biol., Fac. Sci., Campus Univ., 1006 Tunis, Tunisia]

86-004347 Krog, C. and H. Hermansen. PHYSICAL STRUCTURE AND BROWN TROUT (*SALMO TRUTTA FARIO*) POPULATIONS IN SMALL DANISH LOWLAND STREAMS. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 216-222. In English with French summ. FR 31(4)

86-004348 Kushnarenko, A. I. and E. S. Lugarev. [FISH ABUNDANCE AS ESTIMATED FROM CATCHES TAKEN BY PASSIVE FISHING GEAR.] *IN: Mathematical and Informational Requirements for Natural Resource Studies. VNIRO*, 1985. p. 113-121. In Russian with English summ. FR 31(4)

86-004349 Labon-Cervia, J.; C. Montanes and A. de Sostoa. REPRODUCTIVE ECOLOGY AND GROWTH OF A POPULATION OF BROWN TROUT (*SALMO TRUTTA* L.) IN AN AQUIFER-FED STREAM OF OLD CASTILE (SPAIN). *Hydrobiologia* 135(1-2):81-94. 1986. FR 31(4)
[Natl. Mus. Nat. Sci., CISC. Jose Gutierrez Abascal 2. 28006, Madrid, Spain]

86-004350 Lasker, R., (ed.). AN EGG PRODUCTION METHOD FOR ESTIMATING SPAWNING BIOMASS OF PELAGIC FISH: APPLICATION TO THE NORTHERN ANCHOVY, *ENGRAULIS MORDAX. NOAA Tech. Rep. NMFS* 36. iii+99p. 1985. A collection

POPULATION STUDIES, PRODUCTION, RECRUITMENT, ETC. (CONTINUED)

86-004350 CONTINUED of papers.--RS. FR 31(4)
[NMFS, P.O. Box 271, La Jolla, CA 92038]

86-004351 Lecomte-Finiger, R. and J. Brusle. [THE EEL *ANGUILLA ANGUILLA* FROM LAGOONS OF LANGUEDOC-ROUSSILLON: BIOLOGICAL INTEREST AND ECONOMICAL VALUE.] *Vie Milieu* 34(4):185-194. 1984. In French with English summ. FR 31(4)
[Univ. Perpignan, Lab. Biol. Mar., Ave. Villeneuve, 66025 Perpignan Cedex, France]

86-004352 Machena, C. and P. Fair. COMPARISON OF FISH YIELDS FROM PREDICTION MODELS BETWEEN LAKES TANGANYIKA AND KARIBA. *Hydrobiologia* 137(1):29-32. 1986. FR 31(4)
[Lake Kariba Fish. Res. Inst., P.O. Box 75, Kariba, Zimbabwe]

86-004353 Mansfield, P. J. and D. J. Jude. ALEWIFE *(ALOSA PSEUDOHARENGUS)* SURVIVAL DURING THE FIRST GROWTH SEASON IN SOUTHEASTERN LAKE MICHIGAN. *Can. J. Fish. Aquatic Sci.* 43(7):1318-1326. 1986. In English with French summ. FR 31(4)
[Great Lakes Res. Div., Univ. Mich., Ann Arbor 48109]

86-004354 McMahon, T. E. and R. R. Miller. STATUS OF THE FISHES OF THE RIO SONOYTA BASIN, ARIZONA AND SONORA, MEXICO. *Proc. Desert Fishes Counc.* 13-15:237-245. 1985. In English with Spanish summ. FR 31(4)

86-004355 McManus, J. W. DESCRIPTIVE COMMUNITY DYNAMICS: BACKGROUND AND AN APPLICATION TO TROPICAL FISHERIES MANAGEMENT. *Ph.D. dissertation, Univ. R.I.* 232p. 1985. From Diss. Abstr. Int. B Sci. Eng. 47(2):464-465. 1986. FR 31(4)

86-004356 Michael, E.; P. Chadwick and J. M. Green. ATLANTIC SALMON (*SALMO SALAR* L.) PRODUCTION IN A LARGELY LACUSTRINE NEWFOUNDLAND WATERSHED. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2509-2515. 1983. FR 31(4)

86-004357 Misra, R. K. FITTING AND COMPARING SEVERAL GROWTH CURVES OF THE GENERALIZED VON BERTALANFFY TYPE. *Can. J. Fish. Aquatic Sci.* 43(8): 1656-1659. 1986. In English with French summ. FR 31(4)
[Dep. Fish. Oceans, P.O. Box 550, Halifax, NS B3J 2S7, Canada]

86-004358 Mitchell, C. P. EFFECTS OF INTRODUCED GRASS CARP ON POPULATIONS OF TWO SPECIES OF SMALL NATIVE FISHES IN A SMALL LAKE. *N.Z. J. Mar. Freshwater Res.* 20(2):219-230. 1986. FR 31(4)
[Fish. Res. Div., Minist. Agric. Fish., P.O. Box 951, Rotorua, New Zealand]

86-004359 Morgan, G. R. STOCK ASSESSMENT OF THE POMFRET *(PAMPUS ARGENTEUS)* IN KUWAITI WATERS. *J. Cons. Cons. Int. Explor. Mer* 42(1):3-10. 1985. FR 31(4)
[Kuwait Inst. Sci. Res., P.O. Box 24885, Kuwait]

86-004360 Moyle, P. B. and B. Vondracek. STRUCTURE OF THE FISH COMMUNITY OF A SMALL LAHONTAN DRAINAGE STREAM. *Proc. Desert Fishes Counc.* 13-15: 295-296. 1985. Abstract only. In English and Spanish. FR 31(4)

POPULATION STUDIES, PRODUCTION, RECRUITMENT, ETC. (CONTINUED)

86-004361 Muth, K. M. and D. R. Wolfert. CHANGES IN GROWTH AND MATURITY OF WALLEYES ASSOCIATED WITH STOCK REHABILITATION IN WESTERN LAKE ERIE, 1964-1983. *N. Am. J. Fish. Manage.* 6(2):168-175. 1986. FR 31(4)
[U.S. FWS, Sandusky Biol. Stn., Sandusky, OH 44870]

86-004362 Newman, R. M., Jr. PRODUCTION DYNAMICS OF BROWN TROUT IN SOUTH BRANCH CREEK, MINNESOTA. *Ph.D. dissertation, Univ. Minn.* 249p. 1985. From Diss. Abstr. Int. B Sci. Eng. 47(1):51-52. 1986. FR 31(4)

86-004363 O'Gorman, R. and C. P. Schneider. DYNAMICS OF ALEWIVES IN LAKE ONTARIO FOLLOWING A MASS MORTALITY. *Trans. Am. Fish. Soc.* 115(1):1-14. 1986. FR 31(4)
[U.S. FWS, Oswego Biol. Stn., 17 Lake Street, Oswego, NY 13126]

86-004364 Pedroli, J. FLUCTUATION IN THE NUMBER OF FISH IN A COHORT AND POSSIBLE FACTORS DETERMINING IT. A SIX-YEAR SURVEY OF THE COREGONID (*COREGONUS SPP.*) POPULATION OF LAKE NEUCHATEL (SWITZERLAND). *Arch. Hydrobiol Beih. Ergebn. Limnol.* 22:327-336. 1986. In English with German summ. FR 31(4)
[Inst. Zool., Univ. Neuchatel, CH-2000 Neuchatel, Switzerland]

86-004365 Peterman, R. M.; M. J. Bradford and J. L. Anderson. ENVIRONMENTAL AND PARENTAL INFLUENCES ON AGE AT MATURITY IN SOCKEYE SALMON (*ONCORHYNCHUS NERKA*) FROM THE FRASER RIVER, BRITISH COLUMBIA. *Can. J. Fish. Aquatic Sci.* 43(2):269-274. 1986. In English with French summ. FR 31(4)
[NMFS, 8604 La Jolla Shores Dr., La Jolla, CA 92038]

86-004366 Quignard, J. P.; R. Man Wai and R. Vianet. [THE FISHES OF MAUGUIO LAGOON (HERAULT, FRANCE). INVENTORY, POPULATION STRUCTURE SIZE POLYMORPHISM AND GROWTH.] *Vie Milieu* 34(4):173-183. 1984. In French with English summ. FR 31(4)
[Lab. Ichthyol., Univ. Sci. Tech. Languedoc, Place E. Bataillon, 34060 Montpellier Cedex, France]

86-004367 Rogers, D. W. SEASONAL VARIATIONS IN FRESHWATER SMELT ABUNDANCE AND SIZE AND THEIR USE AS FORAGE BY OTHER FISHES IN LAKE SHASTINA, SISKIYOU COUNTY, 1972-73. *Calif. Dep. Fish Game Inland Fish. Admin. Rep.* No. 84-2. 8p. 1984. FR 31(4)

86-004368 Rosenberg, A. A. and R. W. Doyle. ANALYSING THE EFFECT OF AGE STRUCTURE ON STOCK-RECRUITMENT RELATIONSHIPS IN HERRING (*CLUPEA HARENGUS*). *Can. J. Fish. Aquatic Sci.* 43(3):674-679. 1986. In English with French summ. FR 31(4)
[Cent. Environ. Technol., Imperial Coll. Sci. Technol., London SW7 1LU, England]

86-004369 Sale, P. F. and D. M. Williams. COMMUNITY STRUCTURE OF CORAL REEF FISHES: ARE THE PATTERNS MORE THAN THOSE EXPECTED BY CHANCE? *Am. Nat.* 120(1):121-127. 1982. FR 31(4)
[Sch. Biol. Sci., Univ. Sydney, Sydney, NSW 2006, Australia]

86-004370 Scarnecchia, D. L. and E. P. Bergersen. PRODUCTION AND HABITAT OF THREATENED GREENBACK AND COLORADO RIVER CUTTHROAT TROUTS IN ROCKY MOUNTAIN HEADWATER STREAMS. *Trans. Am. Fish. Soc.* 115(3):382-391. 1986. FR 31(4)
[Dep. Anim. Ecol., Iowa State Univ., Ames 50011]

POPULATION STUDIES, PRODUCTION, RECRUITMENT, ETC. (CONTINUED)

86-004371 Schaeffer, J. S. and F. J. Margraf. POPULATION CHARACTERISTICS OF THE INVADING WHITE PERCH *(MORONE AMERICANA)* IN WESTERN LAKE ERIE. *J. Great Lakes Res.* 12(2):127-131. 1986. FR 31(4)
[Normandeau Assoc., 25 Nashua Rd., Bedford, NH 03102]

86-004372 Swales, S. POPULATION DYNAMICS, PRODUCTION AND ANGLING CATCH OF BROWN TROUT, *SALMO TRUTTA*, IN A MATURE UPLAND RESERVOIR IN MID-WALES. *Environ. Biol. Fishes* 16(4):279-293. 1986. FR 31(4)
[Dep. Fish. Oceans, West Vancouver Lab., 4160 Marine Drive, West Vancouver, BC, Canada]

86-004373 Takamura, K. INTRA-AND INTERSPECIFIC RELATIONSHIPS AMONG FISHES IN A ROCKY SHORE OF LAKE TANGANYIKA WITH SPECIAL REFERENCE TO ROCK-GRAZING FISHES. *Int. Ver. Theor. Agnew. Limnol. Verh.* 21(3):1339. 1980. Abstract only. FR 31(4)

86-004374 Tash, J. C.; C. D. Ziebell; B. Wanjala; E. Bianchi and C. Mesick. THE ORIGIN OF AN UNUSUAL SURVIVORSHIP CURVE FOR LARGEMOUTH BASS (*MICROPTERUS SALMOIDES*) IN AN ARIZONA RESERVOIR. *Ariz. Coop. Fish. Res. Unit.* No. 86-1. 24p. 1986. FR 31(4)

86-004375 Tatsukawa, K. and K. Mizuguchi. THE PRODUCTION OF UGUI (*TRIBOLODON HAKONENSIS*: CYPRINIDAE) IN THE HEADWATERS OF STREAMS. *Int. Ver. Theor. Agnew. Limnol. Verh.* 21(3):1298-1302. 1980. FR 31(4)

86-004376 Thedinga, J. F. and K. V. Koski. A STREAM ECOSYSTEM IN AN OLD-GROWTH FOREST IN SOUTHEAST ALASKA PART: VI: THE PRODUCTION OF COHO SALMON, *ONCORHYNCHUS KISUTCH, SMOLTS AND ADULTS FROM PORCUPINE CREEK. IN W. R. Meehan; T. R. Merrell, Jr. and T. A. Hanley (eds.). Fish and Wildlife Relationships in Old-Growth Forests. (Am. Inst. Fish. Res. Biol.)* p. 99-108. 1984. Available @ $20.00 from J. W. Reintjes, Rt. 4, Box 85, Morehead City, NC 28557. FR 31(4)
[NMFS, Auke Bay, AK] The seaward migration of coho salmon smolts and the return of adults were monitored at Porcupine Creek from 1977 to 1981. Smolts captured in 1978 and 1979 were tagged with coded-wire tags to determine marine survival. The number of coho salmon smolts produced in the Porcupine Creek watershed based on the ratio of tagged-to-untagged returning adults was 12,056 in 1978 and 11,212 in 1979. Coho salmon production per area of rearing habitat was estimated to be $0.3/m^2$ and $0.28/m^2$ for 1978 and 1979, respectively. There was substantial annual variation in smolt size and age composition. A total of 781 and 373 adult coho, including fish that returned to Porcupine Creek and those caught in the fishery, were produced in 1979 and 1980, respectively. Survival in the marine environment, excluding jack production, was nearly twice as high for the 1978-79 (6.5%) marine rearing period as for the 1979-80 (3.3%) period. One possible factor contributing to the difference in survival may have been the larger size of the 1978 smolts. The 1978 smolts emigrating during the peak of migration had a significantly higher survival than those migrating before and after the peak.

86-004377 Thresher, R. E. and P. L. Colin. TROPHIC STRUCTURE DIVERSITY AND ABUNDANCE OF FISHES OF THE DEEP REEF (30-300 M) AT ENEWETAK, MARSHALL ISLANDS. *Bull. Mar. Sci.* 38(1):253-272. 1986. FR 31(4)
[CSIRO Div. Fish. Res., G.P.O. Box 1538, Hobart, Tasmania 7001, Australia]

86-004378 Thurow, F. GROWTH PRODUCTION OF THE BALTIC FISH COMMUNITY. *Rapp. P. V. Reun. Cons. Int. Explor. Mer.* 183:170-179. 1984. FR 31(4)

POPULATION STUDIES, PRODUCTION, RECRUITMENT, ETC. (CONTINUED)

86-004379 Turner, S. C. POPULATION DYNAMICS OF AND, IMPACT OF FISHING ON TILEFISH, *LOPHOLATILUS CHAMAELEONTICEPS*, IN THE MIDDLE ATLANTIC-SOUTHERN NEW ENGLAND REGION DURING THE 1970's AND EARLY 1980's. *Ph.D. dissertation, Rutgers Univ.* 318p. 1986. From Diss. Abstr. Int. B. Sci. Eng. 47(3):906. 1986. FR 31(4)

86-004380 Valtonen, T. and A. Niemi. THE PRESENT STATE OF FISHING IN LESTIJOKI, A SMALL RIVER IN FINLAND. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):2085-2091. 1977. FR 31(4)

86-004381 Viljanen, M. POPULATION STUDIES OF VENDACE [*COREGONUS ALBULA* (L.)] AND PERCH (*PERCA FLUVIATILIS* L.) IN A MESOHUMIC OLIGOTROPHIC LAKE. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):2103-2110. 1977. FR 31(4)

86-004382 Woolsey, E. A. LAKE MENDOTA: SOME TROPHIC LEVEL INTERACTIONS AND THEIR EFFECT ON COMMUNITY STRUCTURE. *Ph.D.dissertation, Univ. Wis.* 153p. 1986. From Diss. Abstr. Int. B Sci. Eng. 47(3):964. 1986. FR 31(4)

86-004383 Yant, P. R.; J. R. Karr and P. L. Angermeier. STOCHASTICITY IN STREAM FISH COMMUNITIES: AN ALTERNATIVE INTERPRETATION. *Am. Nat.* 124(4):573-582. 1984. FR 31(4)
[Dep. Ecol. Ethol. Evol., Univ. Ill., 606 E. Healey, Champaign 61820]

86-004384 Yoshiyama, R. M.; C. Sassaman and R. N. Lea. ROCKY INTERTIDAL FISH COMMUNITIES OF CALIFORNIA: TEMPORAL AND SPATIAL VARIATION. *Environ. Biol. Fishes* 17(1):23-40. 1986. FR 31(4)
[Dep. Wildl. Fish. Biol., Univ. Calif., Davis 95616]

86-004385 Zijlstra, J. J. THE BIOLOGICAL PRODUCTIVITY OF NORTH ATLANTIC SHELF AREAS. *Rapp. P. V. Reun. Cons. Int. Explor. Mer.* 183:p.1-284. 1984. A collection of papers.--RS. FR 31(4)

SPAWNING HABITS AND MOVEMENTS, FECUNDITY, ETC.

86-004386 Abidin, A. Z. THE REPRODUCTIVE BIOLOGY OF A TROPICAL CYPRINID, *HAMPALA MACROLEPIDOTA* (VAN HASSELT), FROM ZOO NEGARA LAKE, KUALA LUMPUR, MALAYSIA. *J. Fish Biol.* 29(3):381-391. 1986. FR 31(4)
[Dep. Fish. Biol. Aquacult., Fac. Fish. Mar. Sci., Agric. Univ. Malaysia, Serdang, Selangor, Malaysia]

86-004387 Babiker, M. M. SPAWNING PERIODICITY AND ANNUAL BREEDING SEASONS OF *TILAPIA NILOTICA* (L.) IN THE WHITE NILE. *Hydrobiologia* 135(1-2):71-79. 1986. FR 31(4)
[Dep. Zool., Univ. Kuwait, P.O. Box 5969, Kuwait]

86-004388 Balykin, P. A. FECUNDITY OF WALLEYE POLLOCK, *THERAGRA CHALCOGRAMMA*, IN THE WESTERN PART OF THE BERING SEA. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):131-136. 1986. FR 31(4)
[KoTINRO, Petropavlovsk-Kamchatskiy, USSR]

86-004389 Blumer, L. S. PARENTAL CARE SEX DIFFERENCES IN THE BROWN BULLHEAD, *ICTALURUS NEBULOSUS* (PISCES, ICTALURIDAE). *Behav. Ecol. Sociobiol.* 19(2):97-104. 1986. FR 31(4) [Div. Biol. Sci. Mus. Zool., Univ. Mich., Ann Arbor 48109]

SPAWNING HABITS AND MOVEMENTS, FECUNDITY, ETC. (CONTINUED)

86-004390 Buckley, J. and B. Kynard. HABITAT USE AND BEHAVIOR OF PRE-SPAWNING AND SPAWNING SHORTNOSE STURGEON, *ACIPENSER BREVIROSTRUM*, IN THE CONNECTICUT RIVER. *Dev. Environ. Biol. Fishes* 6:111-117. 1985. FR 31(4)
[Dep. Consumer Regul. Off., Water Qual. Br./Fish., 5010 Overlook Ave. S. W., Washington, DC 20032] Movements and ecology of pre-spawning and spawning shortnose sturgeon, *Acipenser brevirostrum*, were studied through 1979-1982 in a 2km reach of the Connecticut River. Radio telemetry was used to monitor the movements of 18 sturgeon. An additional 165 sturgeon, captured by gillnets, provided information on spawning site selection, sex ratio, and reproductive condition. For 3 years the mean water velocities during the spawning period ranged from 0.36 to 1.2m sec^{-1} in the spawning area. Substrate was cobble and rubble. Sturgeon spawned over a short time period (3-5 days), during decreasing river discharge of 679 to 301 m^3 sec^{-1} (X=561 m^3 sec^{-1}) and rising water temperature between 11.5 to 14.0°C. High river discharge over a prolonged period during the normal spawning season may preclude reproduction.

86-004391 Buttiker, B. IN SITU OBSERVATIONS ON COREGONID EGGS SURVIVAL IN LAKE JOUX (SWITZERLAND). *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:353-361. 1986. In English with German summ. FR 31(4)
[Conserv. Faune, Ch. du Marquisat 1, CH-1025 St-Sulpice, Switzerland]

86-004392 Chapman, D. W.; D. E. Weitkamp; T. L. Welsh; M. B. Dell and T. H. Schadt. EFFECTS OF RIVER FLOW ON THE DISTRIBUTION OF CHINOOK SALMON REDDS. *Trans. Am. Fish. Soc.* 115(4):537-547. 1986. FR 31(4)
[Don Chapman Consultants, Inc., 3180 Airport Way, Boise, ID 83705]

86-004393 Corbett, B. W. and P. M. Powles. SPAWNING AND LARVA DRIFT OF SYMPATRIC WALLEYES AND WHITE SUCKERS IN AN ONTARIO STREAM. *Trans. Am. Fish Soc.* 115(1):41-46. 1986. FR 31(4)
[Dep. Nat. Resour., Fish. Br., Box 20, 1495 St. James St., Winnipeg, MB R3H OW9, Canada]

86-004394 Crowley, L. E. L. M. and W. Ivantsoff. REPRODUCTION AND EARLY STAGES OF DEVELOPMENT IN TWO SPECIES OF AUSTRALIAN RAINBOWFISHES, *MELANOTAENIA NIGRANS* (RICHARDSON) AND *MELANOTAENIA SPLENDIDA INORNATA* (CASTELNAU). *Aust. Zool.* 21(1):85-95. 1982. FR 31(4)
[Sch. Biol. Sci., Macquarie Univ., North Ryde, NSW 2113, Australia]

86-004395 Everson, A. R. SPAWNING AND GONADAL MATURATION OF THE EHU, *ETELIS CARBUNCULUS*, IN THE NORTHWESTERN HAWAIIAN ISLANDS. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 2. p. 128-148. 1984. FR 31(4)
[NMFS, P.O. Box 3830, Honolulu, HI 96812]

86-004396 Farr, J. A.; J. Travis and J. C. Trexler. BEHAVIOURAL ALLOMETRY AND INTERDEMIC VARIATION IN SEXUAL BEHAVIOUR OF THE SAILFIN MOLLY, *POECILIA LATIPINNA* (PISCES: POECLIIDAE). *Anim. Behav.* 34(2):497-509. 1986. FR 31(4)
[Dep. Biol. Sci., Fla. State Univ., Tallahassee 32306]

86-004397 Gale, W. F. INDETERMINATE FECUNDITY AND SPAWNING BEHAVIOR OF CAPTIVE RED SHINERS--FRACTIONAL, CREVICE SPAWNERS. *Trans. Am. Fish. Soc.* 115(3):429-437. 1986. FR 31(4)
[15837 El Lago Blvd., Fountain Hills, AZ 85268]

SPAWNING HABITS AND MOVEMENTS, FECUNDITY, ETC. (CONTINUED)

86-004398 Greeley, M. S.,Jr.; K. R. Marion and R. MacGregor III. SEMILUNAR SPAWNING CYCLES OF *FUNDULUS SIMILIS* (CYPRINODONTIDAE). *Environ. Biol. Fishes* 17(2):125-131. 1986. FR 31(4)
[C. V. Whitney Lab., Univ. Fla., St. Augustine 32086]

86-004399 Gronell, A. M. and P. L. Colin. A. TOROIDAL VORTEX FOR GAMETE DISPERSION IN A MARINE FISH, *PYGOPLITES DIACANTHUS* (PISCES: POMACANTHIDAE). *Anim. Behav.* 33(3):1021-1023. 1985. FR 31(4)
[A-08, Dep. Zool., Univ.Sydney, Sydney, N5W 2006, Australia]

86-004400 Harris, J. H. REPRODUCTION OF THE AUSTRALIAN BASS, *MACQUARIA NOVEMACULEATA* (PERCIFORMES: PERCICHTHYIDAE) IN THE SYDNEY BASIN. *Aust. J. Mar. Freshwater Res.* 37(2):209-235. 1986. FR 31(4)
[Fish. Res. Inst., Dep. Agric., New South Wales, P.O. Box 21, Cronulla, NSW 2230, Australia]

86-004401 Hay, D. E. EFFECTS OF DELAYED SPAWNING ON VIABILITY OF EGGS AND LARVAE OF PACIFIC HERRING. *Trans. Am. Fish. Soc.* 115(1):155-161. 1986. FR 31(4)
[Pac. Biol. Stn., Nanaimo, BC V9R 5K6, Canada]

86-004402 Haynes, C. M. and R. T. Muth. REPRODUCTION OF COLORADO SQUAWFISH, *PTYCHOCHEILUS LUCIUS*, IN THE YAMPA RIVER, COLORADO (1980-83). *Proc. Desert Fishes Counc.* 13-15:297-298. 1985. Abstract only. In English and Spanish. FR 31(4)

86-004403 Heins, D. C. and D. R. Dorsett. REPRODUCTIVE TRAITS OF THE BLACKTAIL SHINER, *NOTROPIS VENUSTUS* (GIRARD), IN SOUTHEASTERN MISSISSIPPI. *Southwest. Nat.* 31(2):185-189. 1986. FR 31(4)
[Dep. Biol., Tulane Univ., New Orleans, LA 70118]

86-004404 Houghton, R. G.; J. M. Last and P. J. Bromley. FECUNDITY AND EGG SIZE OF SOLE (*SOLEA SOLEA* (L.)) SPAWNING IN CAPTIVITY. *J. Cons. Cons. Int. Explor. Mer* 42(2):162-165. 1985. FR 31(4)
[Fish. Lab., Lowestoft, Suffolk NR33 OHT, England]

86-004405 Itzkowitz, M. and D. Makie. HABITAT STRUCTURE AND REPRODUCTIVE SUCCESS IN THE BEAUGREGORY DAMSELFISH. *J. Exp. Mar. Biol. Ecol.* 97(3):305-312. 1986. FR 31(4)
[Dep. Biol., Lehigh Univ., Bethlehem, PA 18015]

86-004406 Kangur, M. and P. Ling. REPRODUCTION OF SEA TROUT ALONG THE SOUTHERN COAST OF THE GULF OF FINLAND. *Finn. Fish. Res.* No. 6. p. 55-60. 1985. FR 31(4)
[Tallinn Dep. Baltic Fish. Res. Inst., Opteegi 1-2, Tallinn, 200001 Estonian SSR, USSR]

86-004407 Kepner, W. G. and W. L. Minkley. REPRODUCTINVE BIOLOGY OF LONGFIN DACE (*AGOSIA CHRYSOGASTER*) IN A SONORAN DESERT STREAM, ARIZONA. *Proc. Desert Fishes Counc.* 13-15:158. 1985. Abstract only. FR 31(4)

86-004408 Khan, I. A. FECUNDITY OF *CIRRHINUS REBA* (HAMILTON-BUCHANAN) FROM BAIGUL RESERVOIR IN UTTAR PRADESH. *Indian J. Anim. Sci.* 56(6):711-716. 1986. FR 31(4)
[Aligarh Muslin Univ., Aligarh, Uttar Pradesh 202 001, India]

SPAWNING HABITS AND MOVEMENTS, FECUNDITY, ETC. (CONTINUED)

86-004409 Kikkawa, B. S. MATURATION, SPAWNING, AND FECUNDITY OF OPAKAPAKA, *PRISTIPOMOIDES FILAMENTOSUS*, IN THE NORTHWESTERN HAWAIIAN ISLANDS. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 2. p. 149-160. 1984. FR 31(4)
[NMFS, P.O. Box 3830, Honolulu, HI 96812]

86-004410 Kikkawa, B. S. and A. R. Everson. GONADAL MATURATION, FECUNDITY, AND SPAWNING OF THE GREATER AMBERJACK, *SERIOLA DUMERILI* (RISSO), IN HAWAIIAN WATERS WITH REFERENCES TO CIGUATOXIN INCIDENCES. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 2. p. 161-178. 1984. FR 31(4)
[NMFS, P.O. Box 3830, Honolulu, HI 96812]

86-004411 Kovtun, V. V. REPRODUCTION OF AUTUMN CHUM SALMON, *ONCORHYNCHUS KETA*, IN SOUTHERN SAKHALIN. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):36-42. 1986. FR 31(4)
[Pac. Fish. Oceanogr. Res. Inst., Yuzhno-Sakhalinsk, USSR]

86-004412 Kwain, W. and G. A. Rose. SPAWNING MIGRATION OF GREAT LAKES PINK SALMON *(ONCORHYNCHUS GORBUSCHA)*: SIZE AND SEX DISTRIBUTIONS, RIVER ENTRANCE AND EXIT. *J. Great Lakes Res.* 12(2):101-108. 1986. FR 31(4)
[Ontario Minist. Nat. Resour., P.O. Box 130, Sault Ste. Marie, ON P6A 5L5, Canada]

86-004413 Libosvarsky, J.; D. W. Saeed and M. Nemcova. FECUNDITY OF ROACH, *RUTILUS RUTILUS*, IN A NEWLY BUILT RESERVOIR. *Folia Zool.* 34(4):357-372. 1985. FR 31(4)
[Inst. Vert. Zool., Czech. Acad. Sci., Brno, Czechoslovakia]

86-004414 Lisovenko, L. A. and A. M. Vertunova. REPRODUCTION OF GROPER IN THE SOUTHWEST INDIAN OCEAN IN RELATION TO SEASONAL DYNAMICS OF BEHAVIOUR. *In: The Behavior of Commercial Fishes. VNIRO, Moscow, USSR.* 1985. p. 85-101. In Russian with English summ. Abstract only. FR 31(4)

86-004415 Loiselle, P. V. MALE SPAWNING-PARTNER PREFERENCE IN AN ARENA-BREEDING TELEOST *CYPRINODON MACULARIUS CALIFORNIENSIS* GIRARD (ATHERINOMORPHA: CYPRINODONTIDAE). *Am. Nat.* 120(6):721-732. 1982. FR 31(4)
[Lab. Limnol., Univ. Wis., Madison 53706]

86-004416 Manzer, J. I. and I. Miki. FECUNDITY AND EGG RETENTION OF SOME SOCKEYE SALMON (*ONCORHYNCHUS NERKA*) STOCKS IN BRITISH COLUMBIA. *Can. J. Fish. Aquatic Sci.* 43(8):1643-1655. 1986. In English with French summ. FR 31(4)
[Pac. Biol. Stn., Nanaimo, BC V9R 5K6, Canada]

86-004417 Marsh, B. A.; A. C. Marsh and A. J. Ribbink. REPRODUCTIVE SEASONALITY IN A GROUP OF ROCK-FREQUENTING CICHLID FISHES IN LAKE MALAWI. *J. Zool. (Lond.)* 209(1):9-20. 1986. FR 31(4)
[A.C. Marsh: Dep. Zool., Univ. Witwatersrand, 1 Jan Smuts Ave., Johannesburg 2001, South Africa]

SPAWNING HABITS AND MOVEMENTS, FECUNDITY, ETC. (CONTINUED)

86-004418 Mayama, H. and T. Takahashi. ECOLOGICAL OBSERVATION ON THE ADULT SALMON--I. DIURNAL VARIATION OF UPSTREAM MIGRATION OF ADULT CHUM SALMON IN THE CHITOSE RIVER. *Sci. Rep. Hokkaido Salmon Hatchery* No.31. p.21-28. 1977. In Japanese with English summ. FR 31(4)

86-004419 Merritt, M. F. and K. Roberson. MIGRATORY TIMING OF UPPER COPPER RIVER SOCKEYE SALMON STOCKS AND ITS IMPLICATIONS FOR THE REGULATION OF THE COMMERCIAL FISHERY. *N. Am. J. Fish. Manage.* 6(2):216-225. 1986. FR 31(4)
[Alaska Dep. Fish Game, Commer. Fish. Div., 333 Raspberry Rd., Anchorage 99518]

86-004420 Micha, J.; M. Chavez and E. Schifflers. [COMPARISON OF DIFFERENT GRAPHIC TECHNIQUES FOR STUDYING THE REPRODUCTIVE STRATEGY OF TROPICAL FISH.] *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2537-2543. 1983. In French. FR 31(4)

86-004421 Morton, R. M. THE REPRODUCTIVE BIOLOGY OF SUMMER WHITING, *SILLAGO CILIATA* C. & V., IN NORTHERN MORETON BAY, QUEENSLAND. *Aust. Zool.* 21(6-7):491-502. 1985. FR 31(4)
[Fish. Res. Br., Dep. Prim. Indus., Brisbane, Qld. 4000, Australia]

86-004422 Mrowka, W. SATIATION RESTORES BROOD CARE MOTIVATION IN THE FEMALE MOUTHBROODER *PSEUDOCRENILABRUS MULTICOLOR (CICHLIDAE). Physiol. Behav.* 38(1):153-156. 1986. FR 31(4)
[Zool. Inst. Tech. Univ. Braunschweig, Pockelsstr. 10a, D-3300 Braunschweig, West Germany]

86-004423 Muller, G.; W. Rinne; T. Burke and M. Delamore. HABITAT SELECTION OF SPAWNING RAZORBACK SUCKERS OBSERVED IN ARIZONA BAY, LAKE MOHAVE, ARIZONA-NEVADA. *Proc. Desert Fishes Counc.* 13-15:157. 1985. Abstract only. FR 31(4)

86-004424 Nagel, R. [EGG PRODUCTION AND SPAWNING CYCLE OF ZEBRAFISH, *BRACHYDANIO RERIO* (HAM.-BUCH).] *J. Appl. Ichthyol.* 2(4):173-181. 1986. In German with French and English summ. FR 31(4)
[Inst. Zool., Johannes-Gutenberg Univ. Mainz, West Germany]

86-004425 Nishiyama, T. and T. Haryu. DISTRIBUTION OF WALLEYE POLLOCK EGGS IN THE UPPERMOST LAYER OF THE SOUTHEASTERN BERING SEA. *In: D. W. Hood and J. A. Calder. The Eastern Bering Sea Shelf: Oceanography and Resources.* p. 993-1012. 1981. FR 31(4)
[Inst. Mar. Sci., Univ. Alaska, Fairbanks]

86-004426 Noltie, D. B. and M. H. A. Keenleyside. CORRELATES OF REPRODUCTIVE SUCCESS IN STREAM-DWELLING MALE ROCK BASS, *AMBLOPLITES RUPESTRIS* (CENTRARCHIDAE). *Environ. Biol. Fishes* 17(1):61-70. 1986. FR 31(4)
[Dep. Zool., Univ. Western Ontario, London, ON N6A 5B7, Canada]

86-004427 Ochi, H. BREEDING SYNCHRONY AND SPAWNING INTERVALS IN THE TEMPERATE DAMSELFISH *CHROMIS NOTATA*. *Environ. Biol. Fishes* 17(2): 117-123. 1986. FR 31(4)
[Mukaishima Mar. Biol. Stn., Hiroshima Univ., Onomichi, Japan]

SPAWNING HABITS AND MOVEMENTS, FECUNDITY, ETC. (CONTINUED)

86-004428 Petersen, C. W. and E. A. Fischer. MATING SYSTEM OF THE HEMAPHRODITIC CORAL-REEF FISH, *SERRANUS BALDWINI*. *Behav. Ecol. Sociobiol.* 19(3):171-178. 1986. FR 31(4)
[Dep. Psychol., NI-25, Univ. Wash., Seattle 98195]

86-004429 Rogers, W. MONOGAMY, MATE CHOICE AND BREEDING SUCCESS IN THE MIDAS CICHLID *(CICHLASOMA CITRINELLUM)*. *Ph.D. dissertation, Univ. Calif.* 177p. 1985. From Diss. Abstr. Int. B Sci. Eng. 47(3):963-964. 1986. FR 31(4)

86-004430 Semenchenko, N. N. ASSESSMENT OF ENERGY EXPENDITURE DURING SPAWNING BY MALE SOCKEYE SALMON, *ONCORHYNCHUS NERKA*, AT VARIOUS SEX RATIOS IN THE SPAWNING GROUND. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(1):89-97. 1986. FR 31(4)
[Inst. Mar. Biol., DVNTs AN, USSR, Vladivostok, USSR]

86-004431 Shershnev, A. P.; V. A. Rudnev and V. A. Belobrzheskii. SOME PECULIARITIES OF THE SPAWNING MIGRATION OF PINK SALMON, *ONCORHYNCHUS GORBUSCHA*, FROM NORTHEASTERN SAKHALIN. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(1):28-34. 1986. FR 31(4)
[SakhTINRO, Yuzhno-Sakkalinsk, USSR]

86-004432 Speas, C. C. REPRODUCTIVE LIFE HISTORY OF THE LEATHERSIDE CHUB, *GILA COPEI*, IN MAIN CREEK, UTAH. *Proc. Desert Fishes Counc.* 13-15: 311-312. 1985. Abstract only. In Spanish and English. FR 31(4)

86-004433 Stanley, B. V. and R. J. Wootton. EFFECTS OF RATION AND MALE DENSITY ON THE TERRITORIALITY AND NEST-BUILDING OF MALE THREE-SPINED STICKLEBACKS (*GASTEROSTEUS ACULEATUS* L.). *Anim. Behav.* 34(2):527-535. 1986. FR 31(4)
[Dep. Zool., Univ. Coll. Wales, Aberystwyth, Dyfed, Wales]

86-004434 Tokranov, A. M. REPRODUCTION OF IRISH LORDS OF THE GENUS *HEMILEPIDOTUS* (COTTIDAE) ON THE EAST COAST OF KAMCHATKA. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(1):35-42. 1986. FR 31(4)
[KoTINRO, Petropavlovsk, Kamchatskiy, USSR]

86-004435 Tyus, H. M. EVIDENCE FOR HOMING IN COLORADO SQUAWFISH, *PTYCHOCHEILUS LUCIUS*. *Proc. Desert Fishes Counc.* 13-15:303-310. 1985. FR 31(4)

86-004436 Tyus, H. M.; E. J. Wick and D. L. Skates. A SPAWNING MIGRATION OF COLORADO SQUAWFISH (*PTYCHOCHEILUS LUCIUS*) IN THE YAMPA AND GREEN RIVERS, COLORADO AND UTAH, 1981. *Proc. Desert Fishes Counc.* 13-15: 102-108. 1985. In English with Spanish summ. FR 31(4)

86-004437 Wallus, R. PADDLEFISH REPRODUCTION IN THE CUMBERLAND AND TENNESSEE RIVER SYSTEMS. *Trans. Am. Fish. Soc.* 115(3):424-428. 1986. FR 31(4)
[Div. Serv. Field Operations, TVA, Norris 37828]

86-004438 Wenger, M. N.; R. M. Lichorat and J. D. Winter. PRE-SPAWNING AND SPAWNING BEHAVIOR OF COHO SALMON AND CHINOOK SALMON IN EASTERN LAKE ERIE. *N.Y. Fish Game J.* 31(2):146-164. 1986. FR 31(4)
[Environ. Resour. Cent., State Univ. Coll., Fredonia, NY 14063]

SPAWNING HABITS AND MOVEMENTS, FECUNDITY, ETC. (CONTINUED)

86-004439 Woodhead, A. D. and C. Carlson. THE ROLE OF FEMALE COMPETITION IN THE MATING SUCCESS OF TWO CLONES OF THE AMAZON MOLLY, *POECILIA FORMOSA*. *J. Fish Biol.* 29(2):227-232. 1986. FR 31(4)
[Biol. Dep., Brookhaven Natl. Lab., Upton, NY 11973]

MOVEMENTS, SEASONAL AND DEPTH DISTRIBUTION, ETC.

86-004440 Azzali, M.; G. Buracchi; S. Conti; S. Gambetti and M. Luna. RELATIONSHIP BETWEEN THE FORMS OF PELAGIC FISH DISTRIBUTION AND NICTEMERAL PERIODS. A TENTATIVE MODEL OF BEHAVIOUR. *Oebalia* 11(2):471-488. 1985. FR 31(4)
[C.N.R., Ist. Ricerca Pesca Marit. (I.R.PE.M.), Molo Mandracchio 60100, Ancona, Italy]

86-004441 Barber, W.; H. Hop; J. Reynolds; M. Smith and R. West. AUTUMN MOVEMENTS OF ARCTIC GRAYLING ON THE ARCTIC NATIONAL WILDLIFE REFUGE AS DETERMINED BY RADIO TELEMETRY. *Alaska Sci. Conf.* 36:218. 1985. Abstract only. FR 31(4)
[Alaska Coop. Fish. Res. Unit, Univ. Alaska, Fairbanks 99775-0110]

86-004442 Barus, V.; J. Gajdusek,; D. S. Pavlov and V. K. Nezdolij. DOWNSTREAM FISH MIGRATION FROM THE MOSTISTE AND VESTONICE RESERVOIRS (CSSR) IN THE SPRING-SUMMER PERIOD. *Folia Zool.* 35(1):79-93. 1986. FR 31(4)
[Inst. Vert. Zool., Czech. Acad. Sci., Brno, Czechoslovakia]

86-004443 Belaud, A.; R. Dautrey; R. Labat; J. P. Lartigue and P. Lim. [OBSERVATIONS ON THE MIGRATION BEHAVIOR OF ALEWIVE (ALOSA ALOSA L.) IN THE ARTIFICIAL CANAL OF GOLFECH HYDROELECTRIC PLANT.] *Ann. Limnol.* 21(2): 161-162. 1985. In French with English summ. FR 31(4)
[Lab Ichtyol. Appl., E.N.S.A.T., 145 Ave. de Muret, 31076 Toulouse Cedex, France]

86-004444 Belyaev, V. A. DISTRIBUTION, MIGRATIONS AND PECULIARITIES OF FORMATION OF COMMERCIAL CONCENTRATIONS OF BIG-EYED MACKEREL (*SCOMBER JAPONICUS*) IN THE NORWEST PACIFIC. *In: The Behavior of Commercial Fishes, VNIRO, Moscow, USSR.* 1985. p. 25-42. In Russian with English summ. Abstract only. FR 31(4)

86-004445 Cantrelle, I. [MIGRATING GLASS-EEL POPULATIONS (*ANGUILLA ANGUILLA* L.) IN THE GIRONDE ESTUARY (FRANCE).] *Vie Milieu* 34(2-3):109-116. 1984. In French with English summ. FR 31(4)
[Lab. Ichtyol. Gen. Appl., Mus. Natl. Hist. Nat., 43, rue Cuvier, 75231 Paris Cedex 05, France]

86-004446 Castonguay, M. VERTICAL MIGRATIONS AND NET AVOIDANCE OF *ANGUILLA* AND OTHER COMMON LEPTOCEPHALI FROM THE SARGASSO SEA, AND A MICROSTRUCTURAL ANALYSIS OF *ANGUILLA* OTOLITHS. *Ph.D. dissertation, Univ. Me.* 90p. 1985. From Diss. Abstr. Int. B Sci. Eng. 47(4):1369. 1986. FR 31(4)

86-004447 Chessa, L. A.; G. M. Delitala and P. L. Guidarini. [PRELIMINARY DATA ABOUT *ANGUILLA ANGUILLA* (L.) ELVERS AT THE OUTLET OF COGHINAS RIVER (NORTHERN SARDINIA).] *Oebalia* 11(2):535-545. 1985. In Italian with

MOVEMENTS, SEASONAL AND DEPTH DISTRIBUTION, ETC. (CONTINUED)

86-004447 CONTINUED English summ. FR 31(4)
[Ist. Zool. Univ., Via Muroni, 25, 07100 Sassari, Italy]

86-004448 Chung, S. ON THE SEASONAL MIGRATION OF ARZENTINE HAKE, *MERLUCCIUS HUBBSI* MARINI. *Bull. Korean Fish. Soc.* 18(6):571-580. 1985. From Korean Sci. Abstr. 18(1):43. 1986. In Korean. FR 31 (4)

86-004449 Eloranta, P. and A. Eloranta. VERTICAL DISTRIBUTION OF FISHES IN ONE LAKE DEEP (LAKE KUUSVESI, CENTRAL FINLAND). *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):2092-2097. 1977. FR 31(4)

86-004450 Hamrin, S. F. VERTICAL DISTRIBUTION AND DIEL RHYTHM OF DIFFERENT AGE CLASSES OF VENDACE, *COREGONUS ALBULA*, IN THERMALLY STRATIFIED LAKES. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2554. 1983. Abstract only. FR 31(4)

86-004451 Hamrin, S. F. VETICAL DISTRIBUTION AND HABITAT PARTITIONING BETWEEN DIFFERENT SIZE CLASSES OF VENDACE, *COREGONUS ALBULA*, IN THERMALLY STRATIFIED LAKES. *Can. J. Fish. Aquatic Sci.* 43(8):1617-1625. 1986. In English with French summ. FR 31(4)
[Dep. Ecol., Univ. Lund, P.O. Box 65, S-22100 Lund, Sweden]

86-004452 Hessen, D. O.; J. Skurdal; L. A. Vollestad and D. Berge. HABITAT USE AMONG SIZE GROUPS OF MONOMORPHIC WHITEFISH *COREGONUS LAVARETUS*. *Hydrobiologia* 137(2):185-192. 1986. FR 31(4)
[Dep. Biol., Div. Zool., Univ. Oslo, P.O. Box 1050, Blindern, 0316 Oslo 3, Norway]

86-004453 Holland, L. E. DISTRIBUTION OF EARLY LIFE HISTORY STAGES OF FISHES IN SELECTED POOLS OF THE UPPER MISSISSIPPI RIVER. *Hydrobiologia* 136:121-130. 1986. FR 31(4)
[U.S.FWS, P.O. Box 818, La Crosse, WI 54602-0818]

86-004454 Hutchings, J. A. LAKEWARD MIGRATIONS BY JUVENILE ATLANTIC SALMON, *SALMO SALAR*. *Can. J. Fish. Aquatic Sci.* 43(4):732-741. 1986. In English with French summ. FR 31(4)
[Dep. Biol., Memorial Univ. Newfoundland, St. John's NF A1B 3X9, Canada]

86-004455 Kamyshneva, T. P. and N. P. Markina. DISTRIBUTION, BEHAVIOUR AND BIOLOGY OF CARDINAL FISH (*EPIGONUS PECTINIFER* MAYER, 1974) AS RELATED TO ENVIRONMENTAL CONDITIONS. *In: The Behavior of Commercial Fishes. VNIRO, Moscow, USSR.* 1985. p. 42-51. In Russian with English summ. Abstract only. FR 31(4)

86-004456 Marliave, J. B. LACK OF PLANKTONIC DISPERSAL OF ROCKY INTERTIDAL FISH LARVAE. *Trans. Am. Fish. Soc.* 115(1):149-154. 1986. FR 31(4)
[Vancouver Publ. Library, P.O. Box 3232, Vancouver, BC V6B 3X8, Canada]

86-004457 McKibben, J. N. and D. R. Nelson. PATTERNS OF MOVEMENT AND GROUPING OF GRAY REEF SHARKS, *CARCHARHINUS AMBLYRHYNCHOS*, AT ENEWETAK, MARSHALL ISLANDS. *Bull. Mar. Sci.* 38(1):89-110. 1986. FR 31(4)
[Dep. Biol., Calif. State Univ., Long Beach 90840]

MOVEMENTS, SEASONAL AND DEPTH DISTRIBUTION, ETC. (CONTINUED)

86-004458 Mesyatsev, I. I. BEHAVIOUR OF HERRINGS OFF THE AZERBAIJAN COAST OF THE CASPIAN SEA. *In: The Behavior of Commercial Fishes. VNIRO, Moscow, USSR.* 1985. p. 3-25. In Russian with English summ. Abstract only. FR 31(4)

86-004459 Miller, M. L. and B. W. Menzel. MOVEMENTS, HOMING, AND HOME RANGE OF MUSKELLUNGE, *ESOX MASQUINONGY*, IN WEST OKOBOJI LAKE, IOWA. *Environ. Biol. Fishes* 16(4):243-255. 1986. FR 31(4)
[Ohio Dep. Nat. Resour., Div. Wildl., 360 E. State St., Athens OH 45701]

86-004460 Muller, K. SEASONAL ANADROMOUS MIGRATION OF THE PIKE (*ESOX LUCIUS* L.) IN COASTAL AREAS OF THE NORTHERN BOTHNIAN SEA. *Arch. Hydrobiol.* 107(3):315-330. 1986. FR 31(4)
[Univ. Umea, Norrby Lat. Aquatic Res., S-910 20 Hornefors, Sweden]

86-004461 Munekiyo, M. and A. Kuwahara. [EGGS AND LARVAE DISTRIBUTION OF RIBBON FISH IN THE WESTERN WAKASA BAY.] *Bull. Jpn. Soc. Sci. Fish.* 52(5): 805-810. 1986. In Japanese with English summ. FR 31(4)
[Kyoto Inst. Oceanic Fish. Sci., Miyazu, Kyoto 626, Japan]

86-004462 Naesje, T. F.; B. Jonsson and O. T. Sandlund. DRIFT OF CISCO AND WHITEFISH LARVAE IN A NORWEGIAN RIVER. *Trans. Am. Fish. Soc.* 115(1): 89-93. 1986. FR 31(4)
[Dir. Nat. Manage., Fish. Rès. Div., Tungasletta 2, N-7000 Trondheim, Norway]

86-004463 Nicholson, W. R. MOVEMENTS AND POPULATION STRUCTURE OF ATLANTIC MENHADEN INDICATED BY TAG RETURNS. *Estuaries* 1(3):141-150. 1978. FR 31(4)

86-004464 O'Boyle, R. N.; M. Sinclair; R. J. Conover; K. H. Mann and A. C. Kohler. TEMPORAL AND SPATIAL DISTRIBUTION OF ICHTHYOPLANKTON COMMUNITIES OF THE SCOTIAN SHELF IN RELATION TO BIOLOGICAL, HYDROLOGICAL, AND PHYSIOGRAPHIC FEATURES. *Rapp. P. V. Reun. Cons. Int. Explor. Mer.* 183:27-40. 1984. FR 31(4)

86-004465 O'Leary, J. A. and B. Kynard. BEHAVIOR, LENGTH, AND SEX RATIO OF SEAWARD-MIGRATING JUVENILE AMERICAN SHAD AND BLUEBACK HERRING IN THE CONNECTICUT RIVER. *Trans. Am. Fish. Soc.* 115(4):529-536. 1986. FR 31(4)
[Mass. Coop. Fish. Res. Unit, Univ. Mass., 204 Holdsworth Hall, Amherst 01003]

86-004466 Ovchinnikov, V. V. MIGRATIONS AND AGGREGATIVE BEHAVIOUR OF TUNAS. *In: The Behavior of Commercial Fishes. VNIRO, Moscow, USSR.* 1985. p. 101-111. In Russian with English summ. Abstract only. FR 31(4)

86-004467 Ralston, S. L. and M. H. Horn. HIGH TIDE MOVEMENTS OF THE TEMPERATE-ZONE HERBIVOROUS FISH *CEBIDICHTHYS VIOLACEUS* (GIRARD) AS DETERMINED BY ULTRASONIC TELEMETRY. *J. Exp. Mar. Biol. Ecol.* 98(1-2):35-50. 1986. FR 31(4)
[Dep. Biol. Sci., Calif. State Univ., Fullerton 92634]

86-004468 Richards, L. J. DEPTH AND HABITAT DISTRIBUTIONS OF THREE SPECIES OF ROCKFISH *(SEBASTES)* IN BRITISH COLUMBIA: OBSERVATIONS FROM THE SUBMERSIBLE PISCES IV. *Environ. Biol. Fishes* 17(1):13-21. 1986. FR 31(4)
[Dep. Fish. Oceans, Pac. Biol. Stn., Nanaimo, BC V9R 5K6, Canada]

MOVEMENTS, SEASONAL AND DEPTH DISTRIBUTION, ETC. (CONTINUED)

86-004469 Richardson, K.; M. R. Heath and N. J. Pihl. STUDIES OF A LARVAL HERRING (*CLUPEA HARENGUS* L.) PATCH IN THE BUCHAN AREA. I. THE DISTRIBUTION OF LARVAE IN RELATION TO HYDROGRAPHIC FEATURES. *Dana* 6:1-10. 1986. FR 31(4)
[Danish Inst. Fish. Mar. Res., Charlottenlund Palace, DK-2920 Charlottenlund, Denmark]

86-004470 Savvatimiskij, P. M. DIURNAL VERTICAL MIGRATIONS OF COD AND ROUND-NOSE GRENADIER IN THE NORTHWEST ATLANTIC. *In: The Behavior of Commercial Fishes. VNIRO, Moscow, USSR.* 1985. p. 67-77. In Russian with English summ. Abstract only. FR 31(4)

86-004471 Sheaffer, W. A. and J. G. Nickum. BACKWATER AREAS AS NURSERY HABITATS FOR FISHES IN POOL 13 OF THE UPPER MISSISSIPPI. *Hydrobiologia* 136:131-140. 1986. FR 31(4)
[Iowa Coop. Fish. Res. Unit, 11 Science Hall II, Iowa State Univ., Ames 50011]

86-004472 Silva, E. I. L. and R. W. Davies. MOVEMENTS OF SOME INDIGENOUS RIVERINE FISH IN SRI LANKA. *Hydrobiologia* 137(3):265-270. 1986. FR 31(4)
[Dep. Biol., Univ. Calgary, Calgary, AB T2N 1N4, Canada]

86-004473 Straty, R. R. TRANS-SHELF MOVEMENTS OF PACIFIC SALMON. *In: D. W. Hood and J. A. Calder. The Eastern Bering Sea Shelf: Oceanography and Resources.* p. 575-595. 1981. FR 31(4)
[NMFS, Auke Bay, AK]

86-004474 Suthers, I. M. and J. H. Gee. ROLE OF HYPOXIA IN LIMITING DIEL SPRING AND SUMMER DISTRIBUTION OF JUVENILE YELLOW PERCH (*PERCA FLAVESCENS*) IN A PRAIRIE MARSH. *Can. J. Fish. Aquatic Sci.* 43(8): 1562-1570. 1986. In English with French summ. FR 31(4)
[Dep. Biol., Dalhousie Univ., Halifax, NS B3H 4J1, Canada]

86-004475 Wanjala, B. S. THE RELATIONSHIP OF MOVEMENT TO FEEDING OF LARGEMOUTH BASS, *MICROPTERUS SALMOIDES* (LACEPEDE 1802) IN ALAMO LAKE, ARIZONA. *Ph.D. dissertation, Univ. Ariz.* 100p. 1985. From Diss. Abstr. Int. B Sci. Eng. 46(8): 2549. 1986. FR 31(4)

86-004476 Weinstein, M. P. and S. P. O'Neil. EXCHANGE OF MARKED JUVENILE SPOTS BETWEEN ADJACENT TIDAL CREEKS IN THE YORK RIVER ESTUARY, VIRGINIA. *Trans. Am. Fish. Soc.* 115(1):93-97. 1986. FR 31(4)
[Lawler, Matusky and Skelly Engineers, One Blue Hill Plaza, Pearl River, NY 10965]

86-004477 Zusser, S. G. LIGHT EFFECTS ON FISH BEHAVIOUR IN THE SEA. *In: The Behavior of Commercial Fishes. VNIRO, Moscow, USSR.* 1985. p. 51-67. In Russian with English summ. Abstract only. FR 31(4)

FOODS/FEEDING

86-004478 Ainley, D. G.; R. P. Henderson; H. R. Huber; R. J. Boekelheide; S. G. Allen and T. L. McElroy. DYNAMICS OF WHITE SHARK PINNIPED INTERACTIONS IN THE GULF OF THE FARALONES. Mem. South. Calif. Acad. Sci. 9:109-122.

FOODS/FEEDING (CONTINUED)

86-004478 CONTINUED 1985. FR 31(4)
[Point Reyes Bird Observatory, 4990 Shoreline Hwy., Stinson Beach, CA 94970]

86-004479 Allan, J. D. DIET OF BROOK TROUT (*SALVELINUS FONTINALIS* MITCHELL) AND BROWN TROUT (*SALMO TRUTTA* L.) IN AN ALPINE STREAM. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):2045-2050. 1977. FR 31(4)

86-004480 Antipova, T. V.; O. V., Gerasimova and S. A. Slonova. [ZOOLPLANKTON DISTRIBUTION AS RELATED TO COMMERCIAL FISH FEEDING IN THE WHITE SEA IN 1982.] *IN: Feeding and Nutritional Requirements of Fish at Different Stages of Development as Factors Determining Year-Class Strength. VNIRO*, 1985. p. 40-50. In Russian with English summ. FR 31(4)

86-004481 Arcifa, M. S.; T. G. Northcote and O. Froelich. FISH-ZOOPLANKTON INTERACTIONS AND THEIR EFFECTS ON WATER QUALITY OF A TROPICAL BRAZILIAN RESERVOIR. *Hydrobiologia* 139(1):49-58. 1986. FR 31(4)
[Dep. Biol., F.F.C.L., Univ. Sao Paulo, 14100 Ribeirao Preto, Brazil]

86-004482 Balon, E. K. TYPES OF FEEDING IN THE ONTOGENY OF FISHES AND THE LIFE-HISTORY MODEL. *Environ. Biol. Fishes* 16(1-3):11-24. 1986. FR 31(4)
[Dep. Zool., Coll. Biol. Sci., Univ. Guelph, Guelph, ON N1G 2W1, Canada]

86-004483 Bannon, E. and N. H. Ringler. OPTIMAL PREY SIZE FOR STREAM RESIDENT BROWN TROUT (*SALMO TRUTTA*): TESTS OF PREDICTIVE MODELS. *Can. J. Zool.* 64(3):704-713. 1986. FR 31(4)
[Inst. Ecosyst. Stud., Mary Cary Flagler Arboretum, P.O. Box AB, Millbrook, NY 12545]

86-004484 Baranova, V. P. METHOD OF DETERMINING THE AMOUNT OF ARTIFICIAL FEED IN THE DIGESTIVE TRACT OF FISH LARVAE. *Hydrobiol. J. (Engl. Transl. Gidrobiol. Zh.)* 21(3):40-41. 1985. FR 31(4)
[State Res. Inst. Lake River Fish., Leningrad, USSR]

86-004485 Barefield, R. L. and C. D. Ziebell. COMPARATIVE FEEDING ABILITY OF SMALL WHITE AND BLACK CRAPPIE IN TURBID WATER. *Iowa State J. Res.* 61(1):143-146. 1986. FR 31(4)
[Ariz. Coop. Fish. Res. Unit, Univ. Ariz., Tucson 85721]

86-004486 Beeckman, W. and A. F. DeBont. CHARACTERISTICS OF THE NAM NYGUM RESERVOIR ECO-SYSTEM AS DEDUCED FROM THE FOOD OF THE MOST IMPORTANT FISH-SPECIES. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2643-2649. 1983. FR 31(4)

86-004487 Bell, J. D.; J. J. Burchmore and D. A. Pollard. THE FOOD AND FEEDING HABITS OF THE ROCK BLACKFISH, *GIRELLA ELEVATA* MACLEAY (PISCES: GIRELLIDAE), FROM THE SYDNEY REGION, NEW SOUTH WALES. *Aust. Zool.* 20(3):391-405. 1980. FR 31(4)

86-004488 Bence, J. R. FEEDING RATE AND ATTACK SPECIALIZATION: THE ROLES OF PREDATOR EXPERIENCE AND ENERGETIC TRADEOFFS. *Environ. Biol. Fishes* 16(1-3):113-121. 1986. FR 31(4)
[Dep. Biol. Sci., Univ. Calif., Santa Barbara 93106]

FOODS/FEEDING (CONTINUED)

86-004489 Blaxter, J. H. S. DEVELOPMENT OF SENSE ORGANS AND BEHAVIOUR OF TELEOST LARVAE WITH SPECIAL REFERENCE TO FEEDING AND PREDATOR AVOIDANCE. *Trans. Am. Fish. Soc.* 115(1):98-114. 1986. FR 31(4)
[Dunstaffnage Mar. Res. Lab., P.O. Box 3, Oban, Argyll PA34 4AD, Scotland]

86-004490 Borgstrom, R.; E. Garnas and S. J. Saltveit. INTERACTIONS BETWEEN BROWN TROUT, *SALMO TRUTTA* L., AND MINNOW, *PHOXINUS PHOXINUS* (L.) FOR THEIR COMMON PREY, *LEPIDURUS ARCTICUS (PALLAS). Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2548-2552. 1983. FR 31(4)

86-004491 Borodulina, O. D. IDENTIFICATION OF THE REMAINS OF MESOPELAGIC FISHES FROM THE STOMACHS OF PREDATORS. REPORT IV. FEATURES OF THE AXIAL SKELETONS OF COMMON SPECIES OF THE SUPERFAMILY ALEPISAUROIDEA. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(1):66-74. 1986. FR 31(4)
[IOAN, Moscow, USSR]

86-004492 Bowman, R. E. EFFECT OF REGURGITATION ON STOMACH CONTENT DATA OF MARINE FISHES. *Environ. Biol. Fishes* 16(1-3):171-181. 1986. FR 31(4)
[NMFS, Woods Hole Lab., Woods Hole, MA 02543]

86-004493 Brabrand, A.; B. Faafeng and J. P. M. Nilssen. JUVENILE ROACH AND INVERTEBRATE PREDATORS: DELAYING THE RECOVERY PHASE OF EUTROPHIC LAKES BY SUPPRESSION OF EFFICIENT FILTER-FEEDERS. *J. Fish Biol.* 29(1): 99-106. 1986. FR 31(4)
[Zool. Mus., Univ. Oslo, Sarsgt. 1, 0562 Oslo 5, Norway]

86-004494 Chabot, F. and E. J. Maly. VARIATION IN DIET OF YELLOW PERCH (*PERCA FLAVESCENS*) IN A QUEBEC RESERVOIR. *Hydrobiologia* 137(2): 117-124. 1986. FR 31(4)
[E. J. Maly: Biol. Dep., Concordia Univ., 1455 de Maisonneuve Blvd. West, Montreal, PQ H3G 1M8, Canada]

86-004495 Cochran, P. A. and J. F. Kitchell. USE OF MODELING TO INVESTIGATE POTENTIAL FEEDING STRATEGIES OF PARASITIC LAMPREYS. *Environ. Biol. Fishes* 16(1-3):219-223. 1986. FR 31(4)
[Div. Nat. Sci., St. Norbert Coll., De Pere, WI 54115]

86-004496 Cochran, P. A. ATTACHMENT SITES OF PARASITIC LAMPREYS: COMPARISONS AMONG SPECIES. *Environ. Biol. Fishes* 17(1):71-79. 1986. FR 31(4)
[Div. Nat. Sci., St. Norbert Coll., De Pere, WI 54115]

86-004497 Cochran, P. A. THE DAILY TIMING OF LAMPREY ATTACKS. *Environ. Biol. Fishes* 16(4):325-329. 1986. FR 31(4)
[Div. Nat. Sci., St. Norbet Coll., De Pere, WI 54115]

86-004498 Courtois, R. and J. J. Dodson. [FEEDING REGIME AND PRINCIPLE FACTORS AFFECTING FEEDING OF CAPELIN (*MALLOTUS VILLOSUS*), SMELT (*OSMERUS MORDAX*), AND HERRING (*CLUPEA HARENGUS HARENGUS*) IN A PARTIALLY MIXED ESTUARY.] *Can. J. Fish. Aquatic Sci.* 43(5):968-979. 1986. In French with English summ. FR 31(4)
[Dep. Biol., Univ. Laval, Cite Univ., Saint-Foy, PQ G1K 7P4, Canada]

FOODS/FEEDING (CONTINUED)

86-004499 Cowen, R. K. SITE-SPECIFIC DIFFERENCES IN THE FEEDING ECOLOGY OF THE CALIFORNIA SHEEPHEAD, *SEMICOSSYPHUS PULCHER* (LABRIDAE). *Environ. Biol. Fishes* 16(1-3):193-203. 1986. FR 31(4)
[Scripps Inst. Oceanogr., Univ. Calif., Mail Code A-008, La Jolla, CA 92093]

86-004500 Crowder, L. B. ECOLOGICAL AND MORPHOLOGICAL SHIFTS IN LAKE MICHIGAN FISHES: GLIMPSES OF THE GHOST OF COMPETITION PAST. *Environ. Biol. Fishes* 16(1-3):147-157. 1986. FR 31(4)
[Dep. Zool., N.C. State Univ., Box 7617, Raleigh 27695]

86-004501 De Bernardi, R. and G. Giussani. EFFECT OF MASS FISH MORTALITY ON ZOOPLANKTON STRUCTURE AND DYNAMICS IN A SMALL ITALIAN LAKE (LAGO DI ANNONE). *Int. Ver. Theor. Angew. Limnol. Verh.* 20(2):1045-1048. 1977. FR 31(4)

86-004502 De Moore, F. C.; R. C. Wilkinson and H. M. Herbst. FOOD AND FEEDING HABITS OF *OREOCHROMIS MOSSAMBICUS* (PETERS) IN HYPERTROPHIC HARTBEESPOORT DAM, SOUTH AFRICA. *S. Afr. J. Zool.* 21(2):170-176. 1986. In English with Afrikaans summ. FR 31(4)
[Albany Mus., Somerset St., Grahamstown 6140, South Africa]

86-004503 Drost, M. R. and J. G. M. van den Boogaart. THE ENERGETICS OF FEEDING STRIKES IN LARVAL CARP, *CYPRINUS CARPIO*. *J. Fish Biol.* 29(3):371-379. 1986. FR 31(4)
[Dep. Exp. Anim. Morphol. Cell Biol., Agric. Univ., Marijkeweg 40, 6709 PG Wageningen, Netherlands]

86-004504 Dunbrack, R. L. THE FORAGING ECOLOGY OF JUVENILE COHO SALMON: BODY SIZE, DIET SELECTION, AND INTRASPECIFIC COMPETITION. *Ph.D. dissertation, Simon Fraser Univ.* 1984. From Diss. Abstr. Int. B Sci. Eng. 46(11):3692. 1986. FR 31(4)

86-004505 Ebeling, A. W. and D. R. Laur. FORAGING IN SURFPERCHES: RESOURCE PARTITIONING OR INDIVIDUALISTIC RESPONSES. *Environ. Biol. Fishes* 16(1-3): 123-133. 1986. FR 31(4)
[Dep. Biol. Sci., Univ. Calif., Santa Barbara 93106]

86-004506 Eggers, D. M. LIMNETIC FEEDING BEHAVIOR OF JUVENILE SOCKEYE SALMON IN LAKE WASHINGTON AND PREDATOR AVOIDANCE. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):2039. 1977. Abstract only. FR 31(4)

86-004507 Elmgren, R. TROPHIC DYNAMICS IN THE ENCLOSED, BRACKISH BALTIC SEA. *Rapp. P. V. Reun. Cons. Int. Explor. Mer.* 183:152-169. 1984. FR 31(4)

86-004508 Furness, R. W. COMPETITION BETWEEN FISHERIES AND SEABIRD COMMUNITIES. *Adv. Mar. Biol.* 20:225-307. 1982. FR 31(4)
[Zool. Dep., Glasgow Univ., Glasgow, Scotland]

86-004509 Furukawa, T. FEEDING HABIT OF STREAM RESIDENT IWANA, *SALVELINUS LEUCOMAENIS* (PALLAS), WITH RELATION TO SPATIAL AND TEMPORAL DISTRIBUTION OF FOOD ORGANISMS. *Int. Ver. Theor. Agnew. Limnol. Verh.* 21(3):1297. 1980. Abstract only. FR 31(4)

FOODS/FEEDING (CONTINUED)

86-004510 Germann, J. F. and C. D. Swanson. FOOD HABITS OF CHAIN PICKEREL IN THE SUWANNEE RIVER, GEORGIA. *Ga. J. Sci.* 36(3-4):153-158. 1978. FR 31(4)

86-004511 Giles, N.; R. M. Wright and M. E. Nord. CANNIBALISM IN PIKE FRY, *ESOX LUCIUS* L.: SOME EXPERIMENTS WITH FRY DENSITIES. *J. Fish Biol.* 29(1):107-113. 1986. FR 31(4)
[Game Conserv., ARC Wildfowl Cent., Great Lindford, Milton Keynes, U.K.]

86-004512 Gorelova, T. A. and B. I. Fedoryako. TOPIC AND TROPHIC RELATIONSHIPS OF FISHES ASSOCIATED WITH DRIFTING SARGASSUM ALGAE. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):63-72. 1986. FR 31(4)
[IOAN, Moscow, USSR]

86-004513 Gouw, L. H. C. NOTES ON THE DIETS OF HERBIVOROUS FISHES FROM THE NORTHWESTERN HAWAIIAN ISLANDS. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 2. p. 346-347. 1984. Abstract only. FR 31(4)
[Hawaii Coop. Fish. Res. Unit, 2538 The Mall, Edmonson Hall 165A, Univ. Hawaii, Honolulu 96822]

86-004514 Hanson, J. M. and W. C. Leggett. EFFECT OF COMPETITION BETWEEN TWO FRESHWATER FISHES ON PREY CONSUMPTION AND ABUNDANCE. *Can. J. Fish. Aquatic Sci.* 43(7):1363-1372. 1986. In English with French summ. FR 31(4)
[Dep. Zool., Univ. Alberta, Edmonton, AB T6G 2E9, Canada]

86-004515 Hargreaves, N. B. and R. J. LeBrasseur. SIZE SELECTIVITY OF COHO (*ONCORHYNCHUS KISUTCH*) PREYING ON JUVENILE CHUM SALMON (*O. KETA*). *Can. J. Fish. Aquatic Sci.* 43(3):581-586. 1986. In English with French summ. FR 31(4)
[Pac. Biol. Stn., Nanaimo, BC V9R 5K6, Canada]

86-004516 Hartmann, J. INTERSPECIFIC PREDICTORS OF SELECTED PREY OF YOUNG FISHES. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:373-386. 1986. In English with German summ. FR 31(4)
[Eichenweg 6, D-7991 Eriskirch-M, West Germany]

86-004517 Hashimoto, S. and T. Ishida. FEEDING OF JUVENILE MASU SALMON IN THE STREAM LIFE. *Sci. Rep. Hokkaido Salmon Hatchery* No. 31. p. 13-20. 1977. In Japanese with English summ. FR 31(4)

86-004518 Heikinheimo-Schmid, O. THE FOOD OF WHITEFISH (*COREGONUS LAVARETUS*) IN TWO NEIGHBOURING LAKES, ONE REGULATED AND THE OTHER NATURAL. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 186-194. In English with French summ. FR 31(4)

86-004519 Helfman, G. S. and J. B. Clark. ROTATIONAL FEEDING: OVERCOMING GAPE-LIMITED FORAGING IN ANGUILLID EELS. *Copeia* 1986(3):679-685. 1986. FR 31(4)
[Dep. Zool., Univ. Ga., Athens 30602]

86-004520 Higgins, P. J. and C. Talbot. GROWTH AND FEEDING IN JUVENILE ATLANTIC SALMON (*SALMO SALAR* L.). *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 243-263. FR 31(4)
[Freshwater Fish. Lab., Pitlochry PH16 5LB, UK]

FOODS/FEEDING (CONTINUED)

86-004521 Hofer, R. and O. Burkle. DAILY FOOD CONSUMPTION, GUT PASSAGE RATE AND PROTEIN UTILIZATION IN WHITEFISH LARVAE (*COREGONUS SP.*). *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:189-196. 1986. In English with German summ. FR 31(4)
[Inst. Zool., Abt. Zoophysiol. Univ. Innsbruck, Peter-Mayr.-Str. 1 a, A-6020 Innsbruck, Austria]

86-004522 Holbrook, S. J. and R. J. Schmitt. FOOD ACQUISITION BY COMPETING SURFPERCH ON A PATCHY ENVIRONMENTAL GRADIENT. *Environ. Biol. Fishes* 16(1-3):135-146. 1986. FR 31(4)
[Dep. Biol. Sci., Univ. Calif., Santa Barbara 93106]

86-004523 Honda, H. DIEL FEEDING CYCLE IN A SNAILFISH, *LIPARIS TANAKAI* (GILBERT ET BURKE). *Tohuku J. Agric. Res.* 36(2):85-91. 1985. FR 31(4)
[Dep. Fish. Sci., Fac. Agric., Tohuku Univ., Sendai 980, Japan]

86-004524 Hunter, M. L., Jr.; J. J. Jones; K. E. Gibbs and J. R. Moring. DUCKLING RESPONSES TO LAKE ACIDIFICAITON: DO BLACK DUCKS AND FISH COMPETE? *Oikos* 47(1):26-32. 1986. In English with Russian summ. FR 31(4)
[Dep. Wildl., Univ. Me., Orono 04469]

86-004525 Hurlbert, S. H.; W. Loayza and T. Moreno. FISH-FLAMINGO INTERACTIONS IN THE CENTRAL ANDES. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2691. 1983. Abstract only. FR 31(4)

86-004526 Iizawa, M. CORRELATIONS BETWEEN PREY DENSITY AND THE AMOUNT OF PREY INGESTED BY LARVAE OF THE SEA BASS (*DICENTRARCHUS LABRAX*). *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R. A. Publ., Paris.* 1984. p. 161-173. In French with English, Spanish and Italian summ. FR 31(4)
[Stn. Biol. Mar. Lagunaire, F 34200 Sete, France]

86-004527 Infante, O. ASPECTS OF THE FEEDING ECOLOGY OF *PETENIA KRAUSSII* (STEINDACHNER, 1878) (PISCES, PERCIFORMES) IN LAKE VALENCIA, VENEZUELA. *Int. Ver. Theor. Agnew. Limnol. Verh.* 21(3):1326-1333. 1980. FR 31(4)

86-004528 Johnson, H. T. A METHOD OF USING GASTROLITHS TO CALCULATE LENGTH AND WEIGHT OF THE FRESHWATER CRAYFISH, *CHERAX DESTRUCTOR*, FOR USE IN PREDATORY-PREY STUDIES. *Aust. Zool.* 21(4-5):435-443. 1984. FR 31(4)
[Dep. Agric., Div. Fish., P.O. Box K220, Haymarket, NSW 2000, Australia]

86-004529 Kawanabe, H.; M. Hori and K. Takamura. COOPERATIVE FEEDING AMONG CICHLID FISHES IN ROCKY SHORES OF LAKE TANGANYIKA. *In. Ver. Theor. Angew. Limnol. Verh.* 22(4):2661. 1983. Abstract only. FR 31(4)

86-004530 Kentouri, M.; P. Divanach and J. Paris. AN APPROACH TO THE TROPHIC BEHAVIOUR OF LARVAE OF SAR (*DIPLODUS SARGUS*), SEA BREAM (*SPARUS AURATUS*), CHARAX (*PUNTAZZO PUNTAZZO*) AND LAMPRAY (*LITHOGNATHUS MORMYRUS*). *IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des sparides. I.N.R.A. Publ., Paris.* 1984. p. 139-159. In French with English, Spanish and Italian summ. FR 31(4)
[Stn. Biol. Mar. Lagunaire, F 34200 Sete, France]

86-004531 Khadka, T. B. and R. Ramakrishna Rao. PREY SIZE SELECTION BY COMMON CARP (*CYPRINUS CARPIO* VAR. *COMMUNIS*) LARVAE IN RELATION TO AGE AND PREY DENSITY. *Aquaculture* 54(1-2):89-96. 1986. FR 31(4)
[Dep. Zool., Univ. Delhi, Delhi 110007, India]

FOODS/FEEDING (CONTINUED)

86-004532 Khalaf, G. [STUDY OF THE FEEDING HABITS OF *CAPOETA DAMOSCINA* (CYPRINIDAE) FROM STREAMS OF LEBANON.] *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2631-2635. 1983. In French with English summ. FR 31(4)

86-004533 Kiorboe, T. and P. Munk. FEEDING AND GROWTH OF LARVAL HERRING, *CLUPEA HARENGUS*, IN RELATION TO DENSITY OF COPEPOD NAUPLII. *Environ. Biol. Fishes* 17(2):133-139. 1986. FR 31(4)
[Danish Inst. Fish. Mar. Res., Charlottenlund Castle, DK2920 Charolttenlund, Denmark]

86-004534 Kirn, R. A.; R. D. Ledgerwood and R. A. Nelson. INCREASED ABUNDANCE AND THE FOOD CONSUMPTION OF NORTHERN SQUAWFISH (*PTYCHOCHEILUS OREGONENSIS*) AT RIVER KILOMETER 75 IN THE COLUMBIA RIVER. *Northwest Sci.* 60(3):197-200. 1986. FR 31(4)
[NMFS, Seattle, WA 98112]

86-004535 Kirn, R. A.; R. D. Ledgerwood and A. L. Jensen. DIET OF SUBYEARLING CHINOOK SALMON (*ONCORHYNCHUS TSHAWYTSCHA*) IN THE COLUMBIA RIVER ESTUARY AND CHANGES EFFECTED BY THE 1980 ERUPTION OF MOUNT ST. HELENS. *Northwest Sci.* 60(3):191-196. 1986. FR 31(4)
[Wildl. Fish. Prog., Univ. Vermont, Burlington 05405]

86-004536 Kitchell, J. F. and L. B. Crowder. PREDATOR-PREY INTERACTIONS IN LAKE MICHIGAN: MODEL PREDICTIONS AND RECENT DYNAMICS. *Environ. Biol. Fishes* 16(1-3):205-211. 1986. FR 31(4)
[Cent. Limnol., Univ. Wis., Madison 53706]

86-004537 Kock, H. KRILL CONSUMPTION BY ANTARCTIC NOTOTHENIOID FISH. *In: W. R. Siegrfied, P. R. Condy, and R. M. Laws (eds.). Antarctic Nutrient Cycles and Food Webs. Fourth SCAR Symp. Antarctic Biol.* p. 437-444. 1985. FR 31(4)
[Inst. Seefisch., Palmaille 9, D-2000 Hamburg 50, West Germany]

86-004538 Konchina, Y. V. FUNDAMENTAL TROPHIC RELATIONSHIPS OF THE ROCKFISHES *SEBASTES MENTELLA* AND *SEBASTES FASCIATUS* (SCORPAENIDAE) OF THE NORTHWESTERN ATLANTIC. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(1):53-65. 1986. FR 31(4)
[VNIRO, Moscow, USSR]

86-004539 Konchina, Y. V. [FEEDING ECOLOGY OF NECTONIC FISHES.] *IN: Feeding and Nutritional Requirements of Fish at Different Stages of Development as Factors Determining Year-Class Strength. VNIRO*, 1985. p. 57-70. In Russian with English summ. FR 31(4)

86-004540 Konkle, B. R. and W. G. Sprules. PLANKTIVORY BY STUNTED LAKE TROUT IN AN ONTARIO LAKE. *Trans. Am. Fish. Soc.* 115(4):515-521. 1986. FR 31(4)
[Dep. Biol., Erindale Campus, Univ. Toronto, Mississauga, ON L5L 1C6, Canada]

86-004541 Koski, K. V. and D. A. Kirchhofer. A STREAM ECOSYSTEM IN AN OLD-GROWTH FOREST IN SOUTHEAST ALASKA: PART IV: FOOD OF JUVENILE COHO SALMON, *ONCORHYNCHUS KISUTCH* IN RELATION TO ABUNDANCE OF DRIFT AND BENTHOS.

FOODS/FEEDING (CONTINUED)

86-004541 CONTINUED *IN W. R. Mechan; T. R. Merrell, Jr. and T. A. Hanley (eds.). Fish and Wildlife Relationships in Old-Growth Forests. (Am. Inst. Fish. Res. Biol.)* p. 81-87. 1984. Available @ $20.00 from J. W. Reintjes, Rt. 4, Box 85, Morehead City, NC 28557. FR 31(4)
[NMFS, Auke Bay, AK]

86-004542 Kraft, C. E. and J. F. KItchell. PARTITIONING OF FOOD RESOURCES BY SCULPINS IN LAKE MICHIGAN. *Environ. Biol. Fishes* 16(4):309-316. 1986. FR 31(4)
[Sea Grant Off., Univ. Wis., Green Bay 54301]

86-004543 Kramer, S. H. FOOD AND FEEDING HABITS OF THE WAHOO, *ACANTHOCYBIUM SOLANDRI*, IN THE NORTHWESTERN HAWAIIAN ISLAND WATERS. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 2. p. 348. 1984. Abstract only. FR 31(4)
[NMFS, P.O. Box 3830, Honolulu, HI 96812]

86-004544 Kubota, T.; K. Watanabe and H. Suzuki. SOME BIOLOGICAL ASPECTS OF A SILVER HATCHEFISH, *POLYIPNUS MATSUBARAI* (FAMILY STERNOPTYCHIDAE), FROM SURUGA BAY, JAPAN. *Fac. Mar. Sci. Technol. Tokai Univ. Collected Reprints* 15:21-28. 1986. In English with Japanese summ. FR 31(4)

86-004545 Lammens, E. H. R. R. A COMPARISON BETWEEN THE FEEDNG OF WHITE BREAM *(BLICCA BJORKNA)* AND BREAM *(ABRAMIS BRAMA). Int. Ver. Theor. Angew. Limnol. Verh.* 22(2):886-890. 1983. FR 31(4)

86-004546 Lang, B. and C. Lang. COREGONID FISH: KEY PREDATORS IN A EUTROPHIC LAKE? *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:363-372. 1986. In English with German summ. FR 31(4)
[Conserv. Faune, Ch. du Marquisat 1, CH-1025 St-Sulpice, Switzerland]

86-004547 Langeland, A. EFFECT OF FISH (*SALVELINUS ALPINUS*, ARCTIC CHAR) PREDATION ON THE ZOOPLANKTON IN TEN NORWEGIAN LAKES. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):2065-2069. 1977. FR 31(4)

86-004548 Larson, B. J. FOOD HABITS OF THE BLACK CRAPPIE, *POMOXIS NIGROMACULATUS*, IN LAKE ANNA, VIRGINIA. *Va. J. Sci.* 37(2):69. 1986. Abstract only. FR 31(4)
[Dep. Biol., Old Dominion Univ., Norfolk, VA 23508]

86-004549 Lentz, D. C. and V. A. Lamarra. ASPECTS OF THE FEEDING ECOLOGY OF THE ENDEMIC BONNEVILLE CISCO OF BEAR LAKE, UTAH-IDAHO. *Proc. Desert Fishes Counc.* 13-15:315-328. 1985. In English and Spanish. FR 31(4)

86-004550 Lewis, S. M. THE ROLE OF HERBIVOROUS FISHES IN THE ORGANIZATION OF A CARIBBEAN REEF COMMUNITY. *Ecol. Monogr.* 56(3):183-200. 1986. FR 31(4)
[Aiken Lab., Harvard Univ., Cambridge, MA 02138]

86-004551 Lewis, S. M. THE ROLE OF HERBIVOROUS FISHES IN THE ORGANIZATION OF A CARIBBEAN REEF COMMUNITY. *Ecol. Monogr.* 56(3):183-200. 1986. FR 31(4)
[Aiken Lab., Harvard Univ., Cambridge, MA 02138]

FOODS/FEEDING (CONTINUED)

86-004552 Lipskaya, N. Y. [FEEDING OF LARVAL JACK MACKEREL *TRACHURUS SYMMETRICUS MURPHYI* (NICHOLS) (CARANGIDAE) OFF THE WESTERN COAST OF SOUTH AMERICA.] *IN: Feeding and Nutritional Requirements of Fish at Different Stages of Development as Factors Determining Year-Class Strength. VNIRO,* 1985. p. 89-106. In Russian with English summ. FR 31(4)

86-004553 Lipskaya, N. Y. [FEEDING OF LARVAE AND FRY OF *VINCIGUERRIA LUCETIA* (GARMAN) (GONOSTOMATIDAE) IN THE SOUTHEAST PACIFIC.] *IN: Feeding and Nutritional Requirements of Fish at Different Stages of Development as Factors Determining Year-Class Strength. VNIRO,* 1985. p. 79-88. In Russian with English summ. FR 31(4)

86-004554 Loftus, D. H. and P. F. Hulsman. PREDATION ON LARVAL LAKE WHITEFISH (*COREGONUS CLUPEAFORMIS*) AND LAKE HERRING (*C. ARTEDII*) BY ADULT RAINBOW SMELT (*OSMERUS MORDAX*). *Can. J. Fish. Aquatic Sci.* 43(4): 812-818. 1986. In English with French summ. FR 31(4)
[Haliburton-Hasting Fish. Assess. Unit, Ontario Minist. Nat. Resour., Box 500, Bancroft, ON K0L 1C0, Canada]

86-004555 Luczynski, M. "HUNGER POTENTIAL" OF *COREGONUS ALBULA* L. LARVAE OF DIFFERENT HATCHING TIME. *Comp. Biochem. Physiol. A Comp. Physiol.* 84(3):459-460. 1986. FR 31(4)
[Inst. Ichthyobiol. Fish., Acad. Agric. Technol., 10-957 Olsztyn-Kortowo, Bl. 37, Poland]

86-004556 Luecke, C. M. THE EFFECT OF THE INTRODUCTION OF CUTTHROAT TROUT ON THE BENTHIC COMMUNITY OF LAKE LENORE, WASHINGTON. *Ph.D. dissertation, Univ. Wash.* 149p. 1986. From Diss. Abstr. Int. B Sci. Eng. 47(4):1392. 1986. FR 31(4)

86-004557 Macdonald, J. S. and R. H. Green. FOOD RESOURCE UTILIZATION BY FIVE SPECIES OF BENTHIC FEEDING FISH IN PASSAMAQUODDY BAY, NEW BRUNSWICK. *Can. J. Fish. Aquatic Sci.* 43(8):1534-1546. 1986. In English with French summ. FR 31(4)
[Dep. Fish. Oceans, 4160 Marine Dr., West Vancouver, BC V7V 1N6, Canada]

86-004558 Marcotte, B. M. and H. I. Browman. FORAGING BEHAVIOUR IN FISHES: PERSPECTIVES ON VARIANCE. *Environ. Biol. Fishes* 16(1-3):25-33. 1986. FR 31(4)
[Inst. Oceanogr., McGill Univ., 3620 University St., Montreal, PQ H3A 2B2, Canada]

86-004559 Martinez, A. P.; F. G. Padron and M. Penaz. FEEDING HABITS OF *MICROPTERUS SALMOIDES* IN CUBA. *Acta Sci. Nat. Acad. Sci. Bohemoslov. Brno Nov. Ser.* 19(4):1-36. 1985. In English with Russian summ. FR 31(4)
[Inst. Zool, Acad. Ciens. Cuba, Rpto. Atabey, Playa, Havana, Cuba]

86-004560 Mbomba, N. B. COMPARATIVE FEEDING ECOLOGY OF 11 SYMPATRIC SPECIES OF CICHLID ALGAL FEEDERS IN LAKE TANGANYIKA WITH REFERENCE TO THEIR DEVELOPMENTAL STAGES. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2662. 1983. Abstract only. FR 31(4)

FOODS/FEEDING (CONTINUED)

86-004561 McQueen, D. J.; J. R. Post and E. L. Mills. TROPHIC RELATIONSHIPS IN FRESHWATER PELAGIC ECOSYSTEMS. *Can. J. Fish. Aquatic Sci.* 43(8):1571-1581. 1986. In English with French summ. FR 31(4)
[Dep. Biol, York Univ., 4700 Keele St., Toronto, ON M3J 1P3, Canada]

86-004562 Meffe, G. K. THE ROLE OF PREDATION IN DESERT AQUATIC COMMUNITIES: PROBLEMS AND PERSPECTIVES. *Proc. Desert Fishes Counc.* 13-15: 159. 1985. Abstract only. FR 31(4)

86-004563 Miranda, L. E. REMOVAL OF STOMACH CONTENTS FROM LIVE LARGEMOUTH BASS USING HYDROGEN PEROXIDE. *N. Am. J. Fish. Manage.* 6(2):285-286. 1986. FR 31(4)
[Miss. Coop. Fish Wildl. Res. Unit, P.O. Drawer BX, Mississippi State 39762]

86-004564 Mittelbach, G. PREDATOR-MEDIATED HABITAT USE: SOME CONSEQUENCES FOR SPECIES INTERACTIONS. *Environ. Biol. Fishes* 16(1-3):159-169. 1986. FR 31(4)
[Ohio Coop. Fish. Res. Unit, Ohio State Univ., Columbus 43210]

86-004565 Miura, T. and J. Wang. CHLOROPHYLL *a* FOUND IN FECES OF PHYTOPLANKTIVOROUS CYPRINIDS AND ITS PHOTOSYNTHETIC ACTIVITY. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2636-2642. 1983. FR 31(4)

86-004566 Monteleone, D. M. and W. T. Peterson. FEEDING ECOLOGY OF AMERICAN SAND LANCE *AMMODYTES AMERICANUS* LARVAE FROM LONG ISLAND SOUND. *Mar. Ecol. Prog. Ser.* 30(2-3):133-143. 1986. FR 31(4)
[Mar. Sci. Res. Cent., State Univ. N.Y., Stony Brook 11794-5000]

86-004567 Muller, M. and J. L. Vanleeuwen. THE FLOW IN FRONT OF THE MOUTH OF A PREY-CAPTURING FISH. *Fortschr. Zool.* 30:223-228. 1985. FR 31(4)
[Dep. Exp. Anim. Morphol. Cell Biol, Marijikeweg 40, 6709 PG Wageningen, Netherlands]

86-004568 Mummert, J. R. and R. W. Drenner. EFFECT OF FISH SIZE ON THE FILTERING EFFICIENCY AND SELECTIVE PARTICLE INGESTION OF A FILTER-FEEDING CLUPEID. *Trans. Am. Fish. Soc.* 115(4):522-528. 1986. FR 31(4)
[Tex. Anal. Lab. Environ. Monit., Inc., 306 W. Broadway, Fort Worth, TX 76104]

86-004569 Nagy, S. [THE FOOD OF THREE SYMPATRIC SPECIES OF RUFFE (*GYMNOCEPHALUS CERNUUS*, *G. SCHRAETSER* AND *G. BALONI*) IN THE SIDE ARMS OF THE DANUBE AT DAKA.] *Prace Lab. Ryb. Hydrobiol.* 5:101-138. 1985. In Czech with English summ. FR 31(4)
[Lab Ryb. Hydrobiol, Drienova 3, 826 24 Bratislava, Czechoslovakia]

86-004570 Noakes, D. L. G. WHEN TO FEED: DECISION MAKING IN STICKLEBACKS, *GASTEROSTEUS ACULEATUS*. *Environ. Biol. Fishes* 16(1-3):95-104. 1986. FR 31(4)
[Anim. Behav. Res. Group, Dep. Zool., South Parks Rd., Oxford Univ., Oxford OXI 3PS, England]

FOODS/FEEDING (CONTINUED)

86-004571 Northcote, T. G.; C. J. Walters and J. B. Hume. INITIAL IMPACTS OF EXPERIMENTAL FISH INTRODUCTIONS ON THE MARCROZOOPLANKTON OF SMALL OLIGOTROPHIC LAKES. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3): 2003-2012. 1977. FR 31(4)

86-004572 O'Brien, W. J. and D. I. Wright. POTENTIAL LIMITS ON THE DAYTIME PLANKTIVOROUS FEEDING DEPTH OF WHITE CRAPPIE. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2527-2533. 1983. FR 31(4)

86-004573 Olson, R. J. and C. H. Boggs. APEX PREDATION BY YELLOWFIN TUNA (*THUNNUS ALBACARES*): INDEPENDENT ESTIMATES FROM GASTRIC EVACUATION AND STOMACH CONTENTS, BIOENERGETICS, AND CESIUM CONCENTRATIONS. *Can. J. Fish. Aquatic Sci.* 43(9):1760-1775. 1986. In English with French summ. FR 31(4)
[Inter-Am. Trop. Tuna Comm., c/o Scripps Inst. Oceanogr., La Jolla, CA 92093]

86-004574 Parrish, J. D.; M. W. Callahan; J. M. Kurz; J. E. Norris; A. E. Sudekum; G. Y. Akita; J. W. Banta; A. Chun; S. K. Coffee; M. A. DeCrosta; S. D. Feldkamp; A. E. Henry; C. J. Lau; W. G. Lyle; E. J. Magarifuji; T. J. Mirenda; S. L. Sanderson; R. E. Schroeder; M. H. Seigaku; A. C. Solonsky; C. T. Sorden; L. R. Taylor, Jr. and A. K. Tomita. TROPHIC RELATIONSHIPS OF NEARSHORE FISHES IN THE NORTHWESTERN HAWAIIAN ISLANDS. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol.1. p.221-225. 1984. FR 31(4)
[Hawaii Coop. Fish. Res. Unit, 2538 The Mall, Edmondson Hall 165A, Univ. Hawaii, Honolulu 96822]

86-004575 Patterson, K. R. THE TROPHIC ECOLOGY OF WHITING *(MERLANGIUS MERLANGUS)* IN THE IRISH SEA AND ITS SIGNIFICANCE TO THE MANX HERRING STOCK. *J. Cons. Cons. Int. Explor. Mer* 42(2):152-161. 1985. FR 31(4)
[Overseas Dev. Admin., South Atl. Dep., Eland House, Stag Place, London SW1, England]

86-004576 Paxton, J. R. and R. J. Lavenberg. FEEDING MORTALITY IN A DEEP SEA ANGLER FISH (*DICERATIAS BISPINOSUS*) DUE TO A MACROURID FISH (*VENTRIFOSSA* SP.). *Aust. Zool.* 18(1):47-51. 1973. FR 31(4)

86-004577 Pechlaner, R. and P. Zaderer. INTERRELATIONS BETWEEN BROWN TROUT AND CHIRONOMIDS IN THE ALPINE LAKE GOSSENKOLLESEE (TYROL). *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2620-2627. 1983. FR 31(4)

86-004578 Ponomarenko, I. Y. and N. A. Yaragina. [SEASONAL AND LONG-TERM DYNAMICS OF FEEDING OF COD ON CAPELIN (*MALLOTUS VILLOSUS VILLOSUS*) IN THE BARENTS SEA.] *IN: Feeding and Nutrutional Requirements of Fish at Different Stages of Development as Factors Determing Year-Class Strength. VNIRO,* 1985. p. 3-18. In Russian with English summ. FR 31(4)

86-004579 Ponomarenko, I. Y. [DISTRIBUTION AND FEEDING OF O-GROUP COD IN RELATION TO DEPTH, WATER TEMPERATURE AND TIME OF THE DAY.] *IN: Feeding and Nutritional Requirements of Fish at Different Stages of Development as Factors Determining Year-Class Strength. VNIRO,* 1985. p.28-39. In Russian with English summ. FR 31(4)

86-004580 Provorova, G. Y.; A. V. Shaykin and M. I. Shatunovskiy. ANNUAL VARIATION IN THE FEEDING OF FIRST YEAR PERCH, *PERCA FLUVIATILIS,* IN MOZHAYSK RESERVOIR. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)*

FOODS/FEEDING (CONTINUED)

86-004580 CONTINUED 26(1):158-161. 1986. FR 31(4)
[IEMEZh, AN USSR, Moscow, USSR]

86-004581 Rask, M. THE DIET AND DIEL FEEDING ACTIVITY OF PERCH, *PERCA FLUVIATILIS* L., IN A SMALL LAKE IN SOUTHERN FINLAND. *Ann. Zool. Fenn.* 23(1):49-56. 1986. FR 31(4)
[Lammi Biol. Stn., Univ. Helsinki, SF-16900 Lammi. Finland]

86-004582 Richards, C. and D. L. Soltz. FEEDING OF RAINBOW TROUT *(SALMO GAIRDNERI)* AND ARROYO CHUBS *(GILA ORCUTTI)* IN A CALIFORNIA MOUNTAIN STREAM. *Southwest. Nat.* 31(2):250-253. 1986. FR 31(4)
[Dep. Biol. Sci., Idaho State Univ., Pocatello 83209]

86-004583 Roblin, C. and J. Brusle. [FOOD AND FEEDING OF FRY AND JUVENILES OF SEA-BASS (*DICENTRARCHUS LABRAX* L.) FROM MEDITERRANEAN LAGOONS IN THE GULF OF LION, (FRANCE).] *Vie Milieu* 34(4):195-207. 1984. In French with English summ. FR 31(4)
[Lab. Biol. Mar., Univ. Perpignan, 66000 Perpignan, France]

86-004584 Saeed, M. O. and C. D. Ziebell. EFFECTS OF DIETARY NONPREFERRED AQUATIC PLANTS ON THE GROWTH OF REDBELLY TILAPIA (*TILAPIA ZILLI*). *Prog. Fish-Cult.* 48(2):110-112. 1986. FR 31(4)
[Fac. Mar. Sci., King Abdulaziz Univ., P.O. Box 1540, Jeddah 21411, Saudi Arabia]

86-004585 Sainsbury, K. J. ESTIMATION OF FOOD CONSUMPTION FROM FIELD OBSERVATIONS OF FISH FEEDING CYCLES. *J. Fish Biol.* 29(1):23-36. 1986. FR 31(4)
[Dep. Fish. Res., CSIRO Mar. Lab., P.O. Box 1538, Hobart, Tasmania 7001, Australia]

86-004586 Sazima, I. SIMILARITIES IN FEEDING BEHAVIOUR BETWEEN SOME MARINE AND FRESHWATER FISHES IN TWO TROPICAL COMMUNITIES. *J. Fish Biol.* 29(1):53-65. 1986. FR 31(4)
[Dep. Zool., Univ. Estadual Campinas, 13100 Campinas, Sao Paulo, Brazil]

86-004587 Schmitt, P. D. FEEDING BY LARVAE OF *HYPOATHERINA TROPICALIS* (PISCES: ATHERINIDAE) AND ITS RELATION TO PREY AVAILABILITY IN ONE TREE LAGOON, GREAT BARRIER REEF, AUSTRALIA. *Environ. Biol. Fishes* 16(1-3): 79-94. 1986. FR 31(4)
[NMFS, P.O. Box 271, La Jolla, CA 92038]

86-004588 Schneidervin, R. W. and W. A. Hubert. A RAPID TECHNIQUE FOR OTOLITH REMOVAL FROM SALMONIDS AND CATOSTOMIDS. *N. Am. J. Fish. Manage.* 6(2):287. 1986. FR 31(4)
[Wyo. Coop. Fish. Wildl. Res. Unit, P.O. Box 3166, Univ. Stn., Laramie 82071]

86-004589 Scrimgeour, G. J. PREY SELECTION BY TORRENTFISH, *CHEIMARRICHTHYS FOSTERI* HAAST, IN THE ASHLEY RIVER, NORTH CANTERBURY, NEW ZEALAND. *N. Z. J. Mar. Freshwater Res.*. 20(1):29-35. 1986. FR 31(4)

FOODS/FEEDING (CONTINUED)

86-004589 CONTINUED
[Dep. Zool., Univ. Canterbury, P.B., Christchurch 1, New Zealand] The diets of two size classes of torrentfish (*Cheimarrichthys fosteri* Haast), taken from the Ashley River, North Canterbury, over two days in February-March 1984, were examined. Small fish (fork length 51-64mm) fed mainly on larval Elmidae (*Hydora sp.*) and Chironomidae, whereas the diets of larger (71-109mm) fish were dominated by Elmidae and Ephemeroptera (*Deleatidium sp.*) larvae. Aquatic larvae dominated diets of all fish; only one item of terrestrial origin was recorded. Torrentfish consumed proportionally greater numbers of slow than fast moving prey. The size range of most prey species taken was narrower than the range present in the river. Increasing fish length did not result in an increased variety of prey items consumed by *C. fosteri*.

86-004590 Seghers, B. H. FEEDING BEHAVIOR AND TERRESTRIAL LOCOMOTION IN THE CYPRINODONTID FISH, *RIVULUS HARTII* (BOULENGER). *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):2055-2059. 1977. FR 31(4)

86-004591 Seki, M. P. THE FOOD AND FEEDING HABITS OF THE GROUPER, *EPINEPHELUS QUERNUS* SEALE 1901, IN THE NORTHWESTERN HAWAIIAN ISLANDS. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands.* Vol. 2. p. 179-191. 1984. FR 31(4)
[NMFS, P.O. Box 3830, Honolulu, HI 96812]

86-004592 Seki, M. P. THE FOOD AND FEEDING HABITS OF THE WHITE TREVALLY, *PSEUDOCARANX DENTEX* (BLOCH AND SCHNEIDER 1801), IN THE NORTHWESTERN HAWAIIAN ISLANDS. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 2. p. 192-208. 1984. FR 31(4)
[NMFS, P.O. Box 3830, Honolulu, HI 96812]

86-004593 Shlyakhov, V. A. ON FOOD REQUIREMENTS AND INTRASPECIFIC PREDATION OF BLACK SEA WHITING *ODONTOGADUS MERLANGUS EUXINUS* (NORDMANN). *In: Oceanographic and Fishery Investigations of the Black Sea. VNIRO, Moscow, USSR.* p.71-81. 1985. In Russian with English summ. FR 31(4)

86-004594 Sibbing, F. A. FOOD-PROCESSING IN THE OROBRANCHIAL CAVITY OF THE CARP. *Fortschr. Zool.* 30:233-236. 1985. FR 31(4)
[Dep. Exp. Anim. Morphol. Cell Biol., Marijkeweg 40, 6709 PG Wageningen, Netherlands]

86-004595 Smale, M. J. THE FEEDING BIOLOGY OF FOUR PREDATORY REEF FISHES OFF THE SOUTH-EASTERN CAPE COAST, SOUTH AFRICA. *S. Afr. J. Zool.* 21(2):111-130. 1986. In English with Afrikaans summ. FR 31(4)
[Port Elizabeth Mus., P.O. Box 13147, Port Elizabeth, South Africa]

86-004596 Sorden, C. T. FEEDING RELATIONSHIPS OF GOATFISHES IN THE NORTHWESTERN HAWAIIAN ISLANDS. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 2. p. 296-308. 1984. FR 31(4)
[Hawaii Coop. Fish. Res. Unit, 2538 The Mall, Edmonson Hall 165A, Univ. Hawaii, Honolulu 96822]

86-004597 Storck, T. W. IMPORTANCE OF GIZZARD SHAD IN THE DIET OF LARGEMOUTH BASS IN LAKE SHELBYVILLE, ILLINOIS. *Trans Am Fish. Soc.* 115(1):21-27. 1986. FR 31(4)
[Ill. Nat. Hist. Surv. Lab., R.R. 1, Box 157, Sullivan 61951]

FOODS/FEEDING (CONTINUED)

86-004598 Sunaga, T. EXPERIMENTAL STUDY OF SELECTIVE FEEDING ON ZOOPLANKTON BY JUVENILE GUPPY (*POECILIA RETICULATA*). *Int. Ver. Theor. Agnew. Limnol. Verh.* 21(3):1303. 1980. Abstract only. FR 31(4)

86-004599 Tait, R. D. COMPARISON OF THE DIETS OF THE NORTHERN SPOTTED BARRAMUNDI (*SCLEROPAGES JARDINI*) AND THE GIANT PERCH (*LATES CALCARIFER*) IN NORTHERN AUSTRALIA. *Int. Ver. Theor. Agnew. Limnol. Verh.* 21(3):1320-1325. 1980. FR 31(4)

86-004600 Tarverdieva, M. I. [FOOD HABITS, DIURNAL FEEDING RHYTHMICITY AND DAILY DIET OF CHUB MACKEREL *SCOMBER JAPONICUS* HOUTT (SCOMBRIDAE) IN THE SOUTHEAST ATLANTIC.] *IN: Feeding and Nutritional Requirements of Fish at Different Stages of Development as Factors Determining Year-Class Strength. VNIRO*, 1985. p. 70-78. In Russian with English summ. FR 31(4)

86-004601 Tatrai, I.; G. L. Toth and J. E. Ponyi. EFFECTS OF BREAM (*ABRAMIS BRAMA* L.) ON THE LOWER TROPHIC LEVELS AND ON WATER QUALITY IN LAKE BALATON. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2630. 1983. Abstract only. FR 31(4)

86-004602 Taylor, W. W. and S. D. Gerking. EFFECT OF RAINBOW TROUT ON THE PRODUCTION OF ITS PREY, *DAPHNIA PULEX*. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(5):3062-3071. 1985. FR 31(4)
[Dep. Fish. Wildl., Mich. State Univ., East Lansing 48824]

86-004603 Theilacker, G. H.; A. S. Kimball and J. S. Trimmer. USE OF AN ELISPOT IMMUNOASSAY TO DETECT EUPHAUSIID PREDATION ON LARVAL ANCHOVY. *Mar. Ecol. Prog. Ser.* 30(2-3):127-131. 1986. FR 31(4)
[NMFS, 8604 La Jolla Shores Dr., La Jolla, CA 92038]

86-004604 Timmons, T. J. FOOD OF A SOUTHEASTERN UNITED STATES POPULATION OF YELLOW PERCH, *PERCA FLAVESCENS* (MITCHILL), IN WEST POINT LAKE, ALABAMA-GEORGIA. *J. Tenn. Acad. Sci.* 59(3):54-57. 1984. FR 31(4)

86-004605 Tito de Morais, L. [FEEDING PERIODICITY AND RATIONS OF THE JUVENILES OF TWO SPECIES OF WESTERN MEDITERRANEAN PLEURONECTIFORMS.] *Vie Milieu* 34(2-3):141-147. 1984. In French with English summ. FR 31(4)
[Univ. P. et M. Curie, UA 117 CNRS, Lab. Arago, 66650 Banyuls-sur-Mer, France]

86-004606 Todd, C. S. and K. W. Stewart. FOOD HABITS AND DIETARY OVERLAP OF NONGAME INSECTIVOROUS FISHES IN FLINT CREEK, OKLAHOMA, A WESTERN OZARK FOOTHILLS STREAM. *Great Basin Nat.* 45(4):721-733. 1985. FR 31(4)
[Dep. Biol. Sci., North Tex. State Univ., Denton 76203]

86-004607 Tricas, T. C. FEEDING ETHOLOGY OF THE WHITE SHARK, *CARCHARODON CARCHARIAS*. *Mem. South. Calif. Acad. Sci.* 9:81-91. 1985. FR 31(4)
[Dep. Zool., Univ. Hawaii at Manoa, Honolulu 96822]

86-004608 Vanleeuwen, J. L. and M. Muller. PREY CAPTURE IN FISH. *Fortschr. Zool.* 30:229-232. 1985. FR 31(4)
[Dep. Exp. Anim. Morphol. Cell Biol., Marijkeweg 40, 6709 PG Wageningen, Netherlands]

FOODS/FEEDING (CONTINUED)

86-004609 Vermeij, G. J. and A. P. Covich. COEVOLUTION OF FRESHWATER GASTROPODS AND THEIR PREDATORS. *Am. Nat.* 112(987):833-843. 1978. FR 31(4)

86-004610 Vigerstad, T. J. and J. S. Cobb. EFFECTS OF PREDATION BY SEA-RUN JUVENILE ALEWIVES *(ALOSA PSEUDOHARENGUS)* ON THE ZOOPLANKTON COMMUNITY AT HAMILTON RESERVOIR, RHODE ISLAND. *Estuaries* 1(1):36-45. 1978. FR 31(4)

86-004611 Vijverberg, J. and W. L. T. Van Densen. THE ROLE OF THE FISH IN THE FOODWEB OF TJEUKEMEER, THE NETHERLANDS. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(2):891-896. 1983. FR 31(4)

86-004612 Webb, P. W. EFFECT OF BODY FORM AND RESPONSE THRESHOLD ON THE VULNERABILITY OF FOUR SPECIES OF TELEOST PREY ATTACKED BY LARGEMOUTH BASS *(MICROPTERUS SALMOIDES). Can J. Fish. Aquatic Sci.* 43(4):763-771. 1986. In English with French summ. FR 31(4)
[Sch. Nat. Resour., Univ. Mich., Ann Arbor 48109-1115]

86-004613 White, D. S.; C. D'Avanzo; I. Valiela; C. Lasta and M. Pascual. THE RELATIONSHIP OF DIET TO GROWTH AND AMMONIUM EXCRETION IN SALT MARSH FISH. *Environ. Biol. Fishes* 16(1-3):105-111. 1986. FR 31(4)
[Boston Univ. Mar. Prog., Mar. Biol. Lab., Woods Hole, MA 02543]

86-004614 Whiteside, M. C.; W. L. Doolittle and C. M. Swindoll. ZOOPLANKTON AS FOOD RESOURCES FOR LARVAL FISH. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2523-2526. 1983. FR 31(4)

86-004615 Williams, R. TROPHIC RELATIONSHIPS BETWEEN PELAGIC FISH AND EUPHAUSIIDS IN ANTARCTIC WATERS. *In : W. R. Seigfried, P. R. Condy, and R. M. Laws (eds.). Antarctic Nutrient Cycles and Food Webs. Fourth SCAR Symp. Antarctic Biol.* p. 452-459. 1985. FR 31(4)
[Antarctic Div., Dep. Sci. Technol., Channel Highway, Kingston 7150, Tasmania, Australia]

86-004616 Wilzbach, M. A. and J. D. Hall. PREY AVAILABILITY AND FORAGING BEHAVIOR OF CUTTHROAT TROUT IN AN OPEN AND FORESTED SECTION OF STREAM. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2516-2522. 1983. FR 31(4)

86-004617 Witkowski, A. and M. Kowalewski. FOOD OF THE DANUBE SALMON *HUCHO HUCHO* (L.) INTRODUCED INTO THE RIVER DUNAJEC. *Acta Hydrobiol.* 25-26(2):205-214. 1984. FR 31(4)
[Wroclaw Univ., Mus. Nat. Hist., Sienkiewicza 21, 50-335 Wroclaw, Poland]

86-004618 Wyche, C. J. and S. E. Shackley. THE FEEDING ECOLOGY OF *PLEURONECTES PLATESSA* L., *LIMANDA LIMANDA* (L.) AND *SCOPHTHALMUS RHOMBUS* (L.) IN CARMARTHEN BAY, SOUTH WALES, U.K. *J. Fish Biol.* 29(3):303-311. 1986. FR 31(4)
[S.E. Shackley: Oceanogr. Dep., Univ. Coll. Swansea, Singleton Park, Swansea SA2 8PP, U.K.]

86-004619 Yamaoka, K. FEEDING BEHAVIOUR AND DENTAL MORPHOLOGY OF AUFWUCHS EATING CICHLID FISHES IN LAKE TANGANYIKA. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2660. 1983. Abstract only. FR 31(4)

FOODS/FEEDING (CONTINUED)

86-004620 Yaragina, N. A. [DIURNAL FEEDING RHYTHMICITY AND DAILY DIET OF COD CONSUMING EUPHAUSIIDS.] *IN: Feeding and Nutritional Requirements of Fish at Different Stages of Development as Factors Determining Year-Class Strength, VNIRO*, 1985. p. 19-28. In Russian with English summ. FR 31(4)

86-004621 Zalesskikh, L. M. [FEEDING OF ONE-SUMMER OLD NAWAGA (*ELEGINUS NAVAGA*) IN THE PECHORA INLET OF THE BARENTS SEA.] *IN: Feeding and Nutritional Requirements of Fish at Different Stages of Development as Factors Determining Year-Class Strength. NVIRO*, 1985. p. 51-57. In Russian with English summ. FR 31(4)

86-004622 Zander, C. D. and J. Berg. FEEDING ECOLOGY OF LITTORAL GOBIID AND BLENNIOID FISHES OF THE BANYULS AREA (MEDITERRANEAN SEA). II. PREY SELECTION AND SIZE PREFERENCE. *Vie Milieu* 34(2-3):149-157. 1984. In English with French summ. FR 31(4)
[Zool. Inst. Mus., Univ. Hamburg, Martin Luther King Platz 3, D-2000 Hamburg 13, West Germany]

AGE AND GROWTH

86-004623 Aps, R. AGE AND GROWTH OF SPRAT IN THE GULF OF FINLAND. *Finn. Fish. Res.* No. 6. p. 134-140. 1985. FR 31(4)
[Tallinn Dep. Baltic Fish. Res. Inst., Opteegi 1-2, Tallinn, 200 001 Estonian SSR, USSR]

86-004624 Backiel, T. MASKING EFFECTS OF VARIABILITY OF GROWTH ON ITS ESTIMATION IN JUVENILE TENCH, *TINCA TINCA* (L.), REARED AT DIFFERENT TEMPERATURES. *Pol. Arch. Hydrobiol.* 33:69-95. 1986. FR 31(4)
[Inland Fish. Inst., Zabieniec, 05-500 Piaseczno, Poland]

86-004625 Brander, K. and D. Palmer. GROWTH RATE OF *RAIA CLAVATA* IN THE NORTHEAST IRISH SEA. *J. Cons. Cons. Int. Explor. Mer* 42(2):125-128. 1985. FR 31(4)
[Fish. Lab., Lowestoft, Suffolk NR33 OHT, England]

86-004626 Brun, G.; G. Olivari and D. Radenen-Girard. [FEEDING REGIME AND GROWTH OF TROUT *SALMO TRUTTA* L. FROM A HIGH MOUNTAIN LAKE IN THE FRENCH ALPS.] *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2615-2619. 1983. In French. FR 31(4)

86-004627 Cailliet, G. M.; L. J. Natanson; B. A. Weldon and D. A. Ebert. PRELIMINARY STUDIES ON THE AGE AND GROWTH OF THE WHITE SHARK, *CARCHARODON CARCHARIAS*, USING VERTEBRAL BANDS. *Mem. South. Calif. Acad. Sci.* 9:49-60. 1985. FR 31(4)
[Moss Landing Mar. Lab., P.O. Box 450, Moss Landing, CA 95039]

86-004628 Carlander, K. D. SAMPLING PROBLEMS IN DERIVING A BODY-SCALE REGRESSION FOR GROWTH CALCULATION FROM FISH SCALES. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2534-2536. 1983. FR 31(4)

86-004629 Chilton, D. E. and H. T. Bilton. NEW METHOD FOR AGEING CHINOOK SALMON (*ONCHORHYNCHUS TSHAWYTSCHA*) USING DORSAL FIN RAYS, AND EVIDENCE OF ITS VALIDITY. *Can. J. Fish. Aquatic Sci.* 43(8):1588-1594. 1986. In

AGE AND GROWTH (CONTINUED)

86-004629 CONTINUED English with French summ. FR 31(4)
[Pac. Biol. Stn., Nanaimo, BC V9R 5K6, Canada]

86-004630 Craig, J. F. A NOTE ON AGEING IN FISH WITH SPECIAL REFERENCE TO THE PERCH, *PERCA FLUVIATILIS* L. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):2060-2064. 1977. FR 31(4)

86-004631 Davies, P. E. and R. D. Sloane. VALIDATION OF AGING AND LENGTH BACK-CALCULATION IN RAINBOW TROUT, *SALMO GAIRDNERI* RICH., FROM DEE LAGOON, TASMANIA. *Aust. J. Mar. Freshwater Res.* 37(2):289-295. 1986. FR 31(4)
[Inland Fish. Comm., 127 Davey St., Hobart, Tasmania 7000, Australia]

86-004632 De Crosta, M. A.; L. R. Taylor, Jr. and J. D. Parrish. AGE DETERMINATION, GROWTH, AND ENERGETICS OF THREE SPECIES OF CARCHARHINID SHARKS IN HAWAII. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 2. p. 75-95. 1984. FR 31(4)
[Old Farms Rd., West Willington, CT 06279]

86-004633 Donald, D. B. and D. J. Alger. STUNTED LAKE TROUT (*SALVELINUS NAMAYCUSH*) FROM THE ROCKY MOUNTAINS. *Can. J. Fish. Aquatic Sci.* 43(3): 608-612. 1986. In English with French summ. FR 31(4)
[Inland Waters Dir., Motherwell Bldg., 1st Floor, 1901 Victoria Ave., Regina, SK S4P 3R4, Canada]

86-004634 Espinosa, L. and E. Pozo. [AGE AND GROWTH OF SNAPPER (*LUTJANUS BUCCANELLA* CUVIER, 1828) IN THE SOUTHEASTERN CUBAN SHELF.] *Rev. Cubana Invest. Pesq.* 7(1):80-100. 1982. In Spanish with English summ. FR 31(4)
[Cent. Invest. Pesq., Havana, Cuba]

86-004635 Furnell, D. J. and J. R. Brett. MODEL OF MONTHLY MARINE GROWTH AND NATURAL MORTALITY FOR BABINE LAKE SOCKEYE SALMON (*ONCORHYNCHUS NERKA*). *Can. J. Fish. Aquatic Sci.* 43(5):999-1004. 1986. In English with French summ. FR 31(4)
[Dep. Zool., Univ. British Columbia, 6270 University Blvd,. Vancouver, BC V6T 1W5, Canada]

86-004636 Healey, M. C. RESPONSE OF A LAKE WHITEFISH (*COREGONUS CLUPEAFORMIS*) POPULATION TO EXPLOITATION. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):2019-2024. 1977. FR 31(4)

86-004637 Jensen, A. J. and B. O. Johnsen. DIFFERENT ADAPTATION STRATEGIES OF ATLANTIC SALMON (*SALMO SALAR*) POPULATIONS TO EXTREME CLIMATES WITH SPECIAL REFERENCE TO SOME COLD NORWEGIAN RIVERS. *Can. J. Fish. Aquatic Sci.* 43(5):980-984. 1986. In English with French summ. FR 31(4)
[Dir. Nat. Manage., Tungasletta 2, N-7000 Trondheim, Norway]

86-004638 Jestin, J. M.; O. Lefrancois and L. Renoncourt. [INFLUENCE OF RESERVOIRS AND GROWTH OF CARP (*CYPRINUS CARPIO*) AND BREAM (*ABRAMIS BRAMA*).] *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2598-2604. 1983. In French. FR 31(4)

AGE AND GROWTH (CONTINUED)

86-004639 King, M. A.; R. J. Graham; W. S. Woolcott and J. E. Jeffrey. A COMPARATIVE STUDY OF GROWTH AND DISTRIBUTION OF *MICROPTERUS DOLOMIEUI* (SMALLMOUTH BASS) IN THE NORTH ANNA AND THE SOUTH ANNA RIVERS, VIRGINIA. *Va. J. Sci.* 37(2):68. 1986. Abstract only. FR 31(4)
[Dep. Biol., Va. Commonwealth Univ., Richmond, VA 23284]

86-004640 Krupka, I. [ON THE AGE AND GROWTH OF BARBEL (*BARBUS BARBUS* (LINNAEUS, 1758)) IN THE VLARA RIVER.] *Prace Lab. Ryb. Hydrobiol.* 5: 199-215. 1985. In Czech with English summ. FR 31(4)
[Lab. Ryb. Hydrobiol., Drienova 3, 826 24 Bratislava, Czechoslovakia]

86-004641 Kryzhanovskiy, I. V. and V. A. Kundiyev. SEXUAL DIMORPHISM OF LINEAR GROWTH OF BREAM IN KREMENCHUG RESERVOIR. *Hydrobiol. J. (Engl. Transl. Gidrogbiol. Zh.)* 21(3):105. 1985. Abstract only. FR 31(4)

86-004642 Lecomte-Finiger, R. AGE DETERMINATION IN EUROPEAN EEL (*ANGUILLA ANGUILLA* L., 1758): ACTUAL STATE OF KNOWLEDGE AND NEW RESULTS ON THE AGE OF MEDITERRANEAN EEL. *J. Appl. Ichthyol.* 1(4):178-192. 1985. In French with English and German summ. FR 31(4)
[Univ. Perpignan, Lab. Biol. Mar., Ave. Villeneuve, F-66025 Perpignan Cedex, France]

86-004643 Machiels, M. A. M. and A. M. Henken. A DYNAMIC SIMULATION MODEL FOR GROWTH FOR THE AFRICAN CATFISH, *CLARIAS GARIEPINUS* (BURCHELL 1822). I. EFFECT OF FEEDING LEVEL ON GROWTH AND ENERGY METABOLISM. *Aquaculture* 56(1):29-52. 1986. FR 31(4)
[Dep. Fish Cult. Fish., Agric. Univ., P.O. Box 338, Wageningen, Netherlands]

86-004644 Mason, D. L. and C. S. Manooch III. GROWTH CHARACTERISTICS OF MUTTON SNAPPER ALONG THE EAST COAST OF FLORIDA. *Poeyana* No. 311. 15p. 1986. FR 31(4)
[NMFS, Beaufort, NC 28516-9722]

86-004645 McCurdy, W. J. A LOW-SPEED ALTERNATIVE METHOD FOR CUTTING OTOLITH SECTIONS. *J. Cons. Cons. Int. Explor. Mer* 42(2):186-187. 1985. FR 31(4)
[Fish. Res. Lab., Coleraine, Cty. Londonderry, Northern Ireland BT51 3RL]

86-004646 Neilson, J. D. and G. H. Geen. FIRST-YEAR GROWTH RATE OF SIXES RIVER CHINOOK SALMON AS INFERRED FROM OTOLITHS: EFFECTS ON MORTALITY AND AGE AT MATURITY. *Trans. Am. Fish. Soc.* 115(1):28-33. 1986. FR 31(4)
[Can. Dep. Fish. Oceans, St. Andrews, NB E0G 2X0, Canada]

86-004647 Radtke, R. L. and G. M. Cailliet. AGE ESTIMATION AND GROWTH OF THE GRAY REEF SHARK *CARCHARHINUS AMBLYRHYNCHOS* FROM THE NORTHWESTERN HAWAIIAN ISLANDS. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 2. p. 121-127. 1984. FR 31(4)
[Hawaii Inst. Mar. Biol., P.O. Box 1346, Kaneohe 96744]

86-004648 Ross, M. R. and F. P. Almeida. DENSITY-DEPENDENT GROWTH OF SILVER HAKES. *Trans. Am. Fish. Soc.* 115(4):548-554. 1986. FR 31(4)
[Dep. For. Wildl. Manage., Univ. Mass., Amherst 01003]

AGE AND GROWTH (CONTINUED)

86-004649 Rowchai, S.; K. Chiba and R. Hirano. INFLUENCE OF DISSOLVED OXYGEN ON GROWTH OF YOUNG EEL. *Bull. Jpn. Soc. Sci. Fish.* 52(4):597-607. 1986. FR 31(4)
[Fac. Fish., Kasetsart Univ., Bangkhen, Bangkok, Thailand]

86-004650 Seikai, T.; J. B. Tanangonan and M. Tanaka. TEMPERATURE INFLUENCE ON LARVAL GROWTH AND METAMORPHOSIS OF THE JAPANESE FLOUNDER *PALALICHTHYS OLIVACEUS* IN THE LABORATORY. *Bull. Jpn. Soc. Sci. Fish.* 52(6):977-982. 1986. FR 31(4)
[Fish. Res. Stn., Fac. Agric., Kyoto Univ., Maizuru, Kyoto 625, Japan]

86-004651 Sewell, S. A. AGE AND GROWTH OF THE BLUEGILL *LEPOMIS MACROCHIRUS* RAFINESQUE FROM AN UNMANAGED WATERSHED LAKE IN NORTHEAST ARKANSAS WITH OBSERVATIONS ON LAKE ECOLOGY. *Proc. Ark. Acad. Sci.* 39: 103-106. 1985. FR 31(4)
[Dep. Biol., Univ. Miss., University 38677]

86-004652 Shenker, J. M. and B. L. Olla. LABORATORY FEEDING AND GROWTH OF JUNENILE SABLEFISH, *ANOPLOPOMA FIMBRIA. Can J. Fish. Aquatic Sci.* 43(5): 930-937. 1986. In English with French summ. FR 31(4)
[Univ. Calif., Bodega Mar. Lab., P.O. Box 247, Bodega Bay, CA 94923]

86-004653 Swanson, G. M. and F. J. Ward. GROWTH OF JUVENILE WALLEYE, *STIZOSTEDION VITREUM VITREUM* (MITCHILL) IN TWO MAN-MADE PONDS IN WINNIPEG, CANADA. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2502-2507. 1983. FR 31(4)

86-004654 Tadajewska, M. RATE OF GROWTH OF ORFE--*LEUCISCUS IDUS* (LINNAEUS, 1758) FROM DAM RESERVOIR ON THE VISTULA RIVER NEAR WLOCLAWEK. *Acta Acad. Agric. Tech. Olst.* 268:99-106. 1985. In Polish with English and Russian summ. FR 31(4)

86-004655 Taylor, T. L. and D. McGriff. AGE AND GROWTH OF MAHAVE TUI CHUB *GILA BICOLOR MOHAVENSIS* FROM TWO PONDS AT FT. SODA. *Proc. Desert Fishes Counc.* 13-15:299-302. 1985. FR 31(4)

86-004656 Tong, H. Y. A QUALITATIVE AND QUANTITATIVE DESCRIPTION OF THE EARLY GROWTH OF ROACH, *RUTILUS RUTILUS*, IN THE LABORATORY. *Environ. Biol. Fishes.* 15(4):293-300. 1986. FR 31(4)
[Shanghai Fish. Coll., 334 Jun Gong Rd., Shanghai, China]

86-004657 Uchiyama, J. H.; S. H. Kuba and D. T. Tagami. LENGTH-WEIGHT AND STANDARD LENGTH-FORK LENGTH RELATIONSHIPS OF DEEPSEA HANDLINE FISHES OF THE NORTHWESTERN HAWAIIAN ISLANDS. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands.* Vol. 2. p. 209-225. 1984. FR 31(4)
[NMFS, P.O. Box 3830, Honolulu, HI 96812]

86-004658 Volk, E. C. USE OF CALCAREOUS OTIC ELEMENTS (STATOLITHS) TO DETERMINE AGE OF SEA LAMPREY AMMOCOETES (*PETROMYZON MARINUS*). *Can. J. Fish. Aquatic Sci.* 43(3):718-722. 1986. In English with French summ. FR 31(4)
[Wash. Dep. Fish., Room 115, Gen. Admin. Bldg., Olympia 98504]

86-004659 Wosnitza-Mendo, C. THE GROWTH OF *ARAPAIMA GIGAS* (CUVIER) AFTER STOCKING IN A PERUVIAN LAKE. *Arch. Fischereiwiss.* 35(1-2): 1-5. 1984. FR 31(4)
[IMARPE, Callao, Peru]

GEOGRAPHICAL DISTRIBUTION, FISH SURVEYS, ETC.

86-004660 [PRINCIPAL SPECIES OF FISHERIES INTEREST.] *Minist. Indus. Pesq., Havana, Cuba* 1985. In Spanish. FR 31(4)

86-004661 Andriyashev, A. P. and V. V. Fedorov. FIRST DISCOVERY OF ZOARCIDAE IN NEW ZEALAND WATERS. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(1):136-144. 1986. FR 31(4)
[ZIN, Leningrad, USSR]

86-004662 Annibal, S. R. P. [FISH AND HYDROLOGY IN THE CENTRAL AMAZON.] *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2692-2697. 1983. In French. FR 31(4)

86-004663 Bainbridge, V. and G. A. Cooper. THE DISTRIBUTION AND ABUNDANCE OF THE LARVAE OF THE BLUE WHITING, *MICROMESISTIUS POUTASSOU* (RISSO), IN THE NORTH-EAST ATLANTIC, 1948-1970. *Bull. Mar. Ecol.* 8(2):99-114. 1973. FR 31(4)

86-004664 Baker, J. A. REPORT ON FISH COLLECTIONS FROM THE OUACHITA RIVER BASIN, ARKANSAS. *Proc. Ark. Acad. Sci.* 39:19-24. 1985. FR 31(4)
[ACE, Waterways Exp. Stn., Vicksburg, MS 39180-0631]

86-004665 Balon, E. K.; S. S. Crawford and A. Lelek. FISH COMMUNITIES OF THE UPPER DANUBE RIVER (GERMANY, AUSTRIA) PRIOR TO THE NEW RHEIN-MAIN-DONAU CONNECTION. *Environ. Biol. Fishes* 15(4):243-271. 1986. FR 31(4)
[Dep. Zool., Univ. Guelph, Guelph, ON N1G 2W1]

86-004666 Baylon Grecco, O. H. [ANALYSIS OF THE ICHTHYOFAUNAL COMPOSITION OF THE LOWER COLORADO RIVER IN BAJA CALIFORNIA, MEXICO.] *Proc. Desert Fishes Counc.* 13-15:222_224. 1985. Abstract only. In Spanish with English summ. FR 31(4)

86-004667 Bell, J. D.; T. M. Berra; P. D. Jackson; P. R. Last and R. D. Sloane. RECENT RECORDS OF THE AUSTRALIAN GRAYLING *PROTOTROCTES MARAENA* GUNTHER (PISCES: PROTOTROCTIDAE) WITH NOTES ON ITS DISTRIBUTION. *Aust. Zool.* 20(3):419-431. 1980. FR 31(4)

86-004668 Bisson, P. A.; J. L. Nielsen; M. W. Chilcote; B. Crawford and S. A. Leider. OCCURRENCE OF ANADROMOUS BROWN TROUT IN TWO LOWER COLUMBIA RIVER TRIBUTARIES. *N. Am. J. Fish. Manage.* 6(2):290-292. 1986. FR 31(4)
[Weyerhaeuser Co., Tacoma, WA 98477]

86-004669 Bleher, H. THE CHACO. *Trop. Fish Hobbyist* 34(11):24-34. 1986. FR 31(4)

86-004670 Bourquin, O. ADDITIONAL FISH RECORDS: MGOBOZELENI LAKE, MAPUTALAND. *Lammergeyer* 36:50. 1986. FR 31(4)
[P.O. Box 662, Pietermaritzburg, 3200, South Africa]

86-004671 Casey, J. G. and H. L. Pratt, Jr. DISTRIBUTION OF THE WHITE SHARK, *CARCHARODON CHARCHARIAS*, IN THE WESTERN NORTH ATLANTIC. *Mem. South. Calif. Acad. Sci.* 9:2-14. 1985. FR 31(4)
[NMFS, Narragansett Lab., Narragansett, RI 02882-1199]

GEOGRAPHICAL DISTRIBUTION, FISH SURVEYS, ETC. (CONTINUED)

86-004672 Cloutman, D. G. and L. L. Olmsted. FIRST RECORD AND STATUS OF THE REDLIP SHINER, *NOTROPIS CHILITICUS* (COPE), FROM SOUTH CAROLINA. *In: D. M. Forsythe and W. B. Ezell, Jr., eds. Proceedings of the First South Carolina Endangered Species Symposium.* 1976. p.130. FR 31(4)
[Environ. Lab., Rt.4, Box 531, Huntersville, NC 28078]

86-004673 Cochnauer, T. G.; J. R. Lukens and F. E. Partridge. STATUS OF WHITE STURGEON, *ACIPENSER TRANSMONTANUS*, IN IDAHO. *Dev. Environ. Biol. Fishes* 6:127-133. 1985. FR 31(4)
[Idaho Dep. Fish Game, Lewiston 83501]

86-004674 Cohen, D. M.; R. H. Rosenblatt and R. L. Haedrich. IDENTITY OF THERMAL VENT FISHES IN THE EASTERN PACIFIC--AN INTERIM REPORT. *Bull. Biol. Soc. Wash.* No 6. p. 229-230. 1985. FR 31(4)
[Nat. Hist. Mus. Los Angeles Cty., Los Angeles, CA]

86-004675 Compean Jimenez, G. and O. Baylon Grecco. [PRELIMINARY STUDIES OF THE FISHERY OF THE LAGUNA SALADA, BAJA CALIFORNIA.] *Proc. Desert Fishes Counc.* 13-15:201-221. 1985. In Spanish with English summ.. FR 31(4)

86-004676 Davis, G. E. KELP FOREST DYNAMICS IN CHANNEL ISLANDS NATIONAL PARK, CALIFORNIA, 1982-85. *Channel Islands Natl. Park Natl. Mar. Sanctuary Natl. Sci. Stud. Rep.* CHIS-86-001. 11p. 1986. FR 31(4)
[Channel Island Natl. Park, 1901 Spinnaker Dr., Ventura, CA 93001]

86-004677 Deinstadt, J. M.; D. R. McEwan and D. M. Wong. SURVEY OF FISH POPULATIONS IN STREAMS OF THE OWENS RIVER DRAINAGE: 1983-84. *Calif. Dep. Fish Game Inland Fish. Admin. Rep.* No. 85-2. 102p. 1985. FR 31(4)
[Calif. Dep. Fish Game, Rancho Cordova]

86-004678 Deinstadt, J. M.; G. F. Sibbald; J. D. Knarr and D. M. Wong. SURVEY OF FISH POPULATIONS IN STREAMS OF THE OWENS RIVER DRAINAGE: 1985. *Calif. Dep. Fish Game Inland Fish. Admin. Rep.* 86-3. 71p. 1986. FR 31(4)
[Calif. Dep. Fish Game, Inland Fish. Br., Rancho Cordova]

86-004679 Denoncourt, R. F.; J. C. Fisher and K. M. Rapp. A FRESHWATER POPULATION OF THE MUMMICHOG, *FUNDULUS HETEROCLITUS*, FROM THE SUSQUEHANNA RIVER DRAINAGE IN PENNSYLVANIA. *Estuaries* 1(4):269-272. 1978. FR 31(4)

86-004680 Dermott, R. M. and C. A. Timmins. OCCURRENCE AND SPAWNING OF PINK SALMON, *ONCORHYNCHUS GORBUSCHA* IN LAKE ONTARIO TRIBUTARIES. *Can. Field-Nat.* 100(1):131-133. 1986. FR 31(4)
[Great Lakes Fish. Res. Br., Burlington, ON L7R 4A6, Canada]

86-004681 Dor, M. CHECKLIST OF THE FISHES OF THE RED SEA. *Isr. Acad. Sci. Human., Jerusalem* xxii+437p. 1984. FR 31(4)

86-004682 Feldmeth, C. R. and C. H. Eriksen. A HYPOTHESIS TO EXPLAIN THE DISTRIBUTION OF NATIVE TROUT IN A DRAINAGE OF MONTANA'S BIG HOLE RIVER. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):2040-2044. 1977. FR 31(4)

86-004683 Franzin, W. G.; B. R. Parker and S. M. Harbicht. FIRST RECORD OF THE GOLDEN REDHORSE, *MOXOSTOMA ERYTHRURUM*, FROM THE RED RIVER IN MANITOBA. *Can. Field-Nat.* 100(2):270-271. 1986. FR 31(4)
[Freshwater Inst., 501 University Crescent, Winnipeg, MB R3T 2N6, Canada]

GEOGRAPHICAL DISTRIBUTION, FISH SURVEYS, ETC. (CONTINUED)

86-004684 Gengerke, T. W. DISTRIBUTION AND ABUNDANCE OF PADDLEFISH IN THE UNITED STATES. *North Cent. Div. Am. Fish. Soc. Spec. Publ.* No. 7. p. 22-35. 1986. Available at $9.00 ($11.00 Foreign) from Joe G. Dillard, 1110 College Ave., Columbia, MO 65201. FR 31(4)
[Iowa Conserv. Comm., Spirit Lake 51360]

86-004685 Gilhen, J. THE SECOND AND THIRD RECORDS OF THE BLACK DRUM, *POGONIAS CROMIS*, FROM THE CANADIAN ATLANTIC. *Can. Field-Nat.* 100(1):125-126. 1986. FR 31(4)
[Nova Scotia Mus., 1747 Summer St., Halifax, NS B3H 3A6, Canada]

86-004686 Glover, C. J. M. and T. C. Sim. A SURVEY OF CENTRAL AUSTRALIAN ICHTHYOLOGY. *Aust. Zool.* 19(3):245-256. 1978. FR 31(4)

86-004687 Golovan, G. A. and N. P. Pakhorukov. NEW RECORDS OF RARE SPECIES OF CARTILAGINOUS FISHES. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):117-120. 1986. FR 31(4)
[Exp. Design Bur., Underwater Res., Sevastopol, USSR]

86-004688 Gonzalez Afanador, E. [COASTAL HABITATS OF JUVENILE FISH IN THE REGION OF PUNTA GLORIA AND THE ISLA DE SALAMANCA, COLOMBIAN CARIBBEAN.] *An. Inst. Invest. Mar. Punta de Betin* 14:133-155. 1984. In Spanish with English summ. FR 31(4)
[Carrera 4 Bis No. 30-19, Bogata D. E., Colombia]

86-004689 Gotshall, D. W.; G. H. Allen and R. A. Barnhart. AN ANNOTATED CHECKLIST OF FISHES FROM HUMBOLDT BAY, CALIFORNIA. *In: C. Toole and C. Diebel (eds.), Proc. Humboldt Bay Symp.* p. 52-59. 1982. FR 31(4)
[Calf. Dep. Fish Game, Avila Beach 93424]

86-004690 Govoni, J. J. and J. V. Merriner. THE OCCURRENCE OF LADYFISH, *ELOPS SAURUS*, LARVAE IN LOW SALINITY WATERS AND ANOTHER RECORD FOR CHESAPEAKE BAY. *Estuaries* 1(3):205-206. 1978. FR 31(4)

86-004691 Harris, J. L. and K. L. Smith. DISTRIBUTION AND STATUS OF *ETHEOSTOMA CRAGINI* GILBERT AND *E. MICROPERCA* JORDAN AND GILBERT IN ARKANSAS. *Proc. Ark. Acad. Sci.* 39:135-136. 1985. FR 31(4)
[Environ. Div., Arkansas Highway Transport. Dep., Little Rock 72203]

86-004692 Harvey, H. H. FISH COMMUNITIES OF THE MANITOULIN ISLAND LAKES. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):2031-2038. 1977. FR 31(4)

86-004693 Hendrickson, D. A. and W. L. Minckley. AREA CLADOGRAMS FOR WESTERN NORTH AMERICAN FISH FAUNAS. *Proc. Desert Fishes Counc.* 13-15: 246-247. 1985. Abstract only. In English and Spanish. FR 31(4)

86-004694 Hendrickson, D. A. WESTERN NORTH AMERICAN SUBPLATE TECTONISM AND FISH DISTRIBUTIONS. *Proc. Desert Fishes Counc.* 13-15:354-355. 1985. Abstract only. In English and Spanish. FR 31(4)

86-004695 Houghton, J. P.: J. S. Isakson; D. E. Rogers and P. H. Poe. INSHORE FISH COMMUNITIES ALONG THE NORTH SIDE OF THE ALASKA PENINSULA. *Alaska Sci. Conf.* 36:214-215. 1985. Abstract only. FR 31(4)
[Dames & Moore, 155 N.E. 100th St., Suite 500, Seattle, WA 98125]

GEOGRAPHICAL DISTRIBUTION, FISH SURVEYS, ETC. (CONTINUED)

86-004696 Hudson, P. L.; B. M. Davis; S. J. Nichols and C. M. Tomeko. ENVIRONMENTAL STUDIES OF MACROZOOBENTHOS, AQUATIC MACROPHYTES, AND JUVENILE FISHES IN THE ST. CLAIR-DETROIT RIVER SYSTEM, 1983-1984. *Great Lakes Fish. Lab. Admin. Rep.* No. 86-7. x+303p. 1986. FR 31(4)
[U.S.FWS, Great Lakes Fish. Lab., 1451 Green Rd., Ann Arbor, MI 48105]

86-004697 Hughes, G. W. and R. K. Kashino. FIRST RECORDS OF THE AGONID FISH *SARRITOR FRENATUS* FROM BRITISH COLUMBIA. *Syesis* 17:101. 1984. FR 31(4)
[Aquatic Zool. Div., British Columbia Prov. Mus., Victoria, BC V8V 1X4, Canada]

86-004698 Jubb, R. A. and F. O. Petrick. *TILAPIA MOSSAMBICA* PETERS, FROM AUSTRALIA. *Ann. Cape Prov. Mus. Nat. Hist.* 8(7):67-71. 1970. FR 31(4)

86-004699 Jubb, R. A. THE *NOTHOBRANCHIUS* (PISCES, CYPRINODONTIDAE) OF SOUTHERN AFRICA AND A NEW SPECIES FROM LAKE CHILWA, MALAWI. *Ann. Cape Prov. Mus. Nat. Hist.* 8(1):1-11. 1969. FR 31(4)

86-004700 Klimley, A. P. THE AREAL DISTRIBUTION AND AUTOECOLOGY OF THE WHITE SHARK, *CARCHARODON CARCHARIAS*, OFF THE WEST COAST OF NORTH AMERICA. *Mem. South. Calif. Acad. Sci.* 9:15-40. 1985. FR 31(4)
[Mar. Biol. Res. Div., A-002, Scripps Inst. Oceanogr., La Jolla, CA 92093]

86-004701 Kushlan, J. A. EXOTIC FISHES OF THE EVERGLADES: A RECONSIDERATION OF PROVEN IMPACT. *Environ. Conserv.* 13(1):67-69. 1986. FR 31(4)
[Dep. Biol. Sci., East Tex. State Univ., Commerce 75428]

86-004702 Lewis, R. J. and D. Nusbaumer. SHALLOW WATER FISH POPULATIONS IN THE TIDAL FRESHWATER POTOMAC RIVER. *Va. J. Sci.* 37(2):69. 1986. Abstract only. FR 31(4)
[Dep. Biol., George Mason Univ., Fairfax, VA 22030]

86-004703 Lien, J. and L. Fawcett. DISTRIBUTION OF BASKING SHARKS, *CETORHINUS MAXIMUS*, INCIDENTALLY CAUGHT IN INSHORE FISHING GEAR IN NEWFOUNDLAND. *Can. Field-Nat.* 100(2):246-252. 1986. FR 31(4)
[Newfoundland Inst. Cold Ocean Sci., Memorial Univ. Newfoundland, St. John's, NF A1C 3X9, Canada]

86-004704 Lowenberg, U.; T. Kunzel and W. Weber. A RESEARCH FISHERY WITH TROLLING LINES IN THE WATERS OF THE SEYCHELLES. *J. Appl. Ichthyol.* 1(4): 145-156. In English with French and German summ. FR 31(4)
[Inst. Kusten-Binnenfisch. Bundesforsch. Fisch., Bei der Alten Leche 1, 2190 Cuxhaven, West Germany]

86-004705 Maguire, G. B. and J. D. Bell. THE FISH FAUNA OF BRACKISH WATER PRAWN FARMING PONDS AT PORT STEPHENS, NEW SOUTH WALES. *Aust. Zool.* 21(1):75-84. 1982. FR 31(4)
[N.S.W. State Fish., Brackish Water Fish Cult. Res. Stn., Salamander Bay, NSW 2301, Australia]

GEOGRAPHICAL DISTRIBUTION, FISH SURVEYS, ETC. (CONTINUED)

86-004706 Matallanas, J. [*LIONORUS CAPAPINUS* (GOODE AND BEAN, 1883) (PISCES, MACROURIDAE) AND *SYNAPTURA LUSITANICA* CAPELLO, 1868 (PISCES, SOLEIDAE) IN THE MEDITERRANEAN SEA.] *Vie Milieu* 34(2-3):139-140. In French with English summ. FR 31(4)
[Dep. Zool., Univ. Autonoma Barcelona, Bellaterra, Barcelona, Spain]

86-004707 Matthews, W. J. FISH FAUNAL 'BREAKS' AND STREAM ORDER IN THE EASTERN AND CENTRAL UNITED STATES. *Environ. Biol. Fishes* 17(2):81-92. 1986. FR 31(4)
[Biol. Stn., Univ. Okla., Kingston 73439]

86-004708 Mbadu, K. [REPRODUCTION AND GEOGRAPHICAL DISTRIBUTION OF *HETEROTIS NOLOTICUS* (PISCES, OSTEPGLOSSIDAE) IN THE ZAIRE RIVER BASIN.] *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2655-2659. 1983. In French. FR 31(4)

86-004709 McCabe, G. T. and T. C. Coley. OCCURRENCE OF TOPSMELT, *ATHERINOPS AFFINIS*, IN THE COLUMBIA RIVER ESTUARY. *J. Idaho Acad. Sci.* 21(1-2):40-41. 1985. FR 31(4)
[NMFS, 2725 Montlake Blvd. East, Seattle, WA 98112]

86-004710 McNatt, R. M. and D. L. Skates. FISHERY INVESTIGATION OF THE YAMPA AND GREEN RIVERS, DINOSAUR NATIONAL MONUMENT, COLORADO AND UTAH, 1981. *Proc. Desert Fishes Counc.* 13-15:91-100. 1985. FR 31(4)

86-004711 Menni, R. C. and M. L. Garcia. [YOUNG SPECIMENS OF *NOTORYNCHUS PECTOROSUS* (HEXANCHIDAE) AND *SPHYRNA ZYGAENA* (SPHYRNIDAE) OFF THE RIO DE LA PLATA (CHONDRICHTHYES).] *Hist. Nat.* 5(1):1-10. 1985. In Spanish with English summ. FR 31(4)
[CONICET, Lab. Ictiol., Mus. La Plata, Paseo del Bosque, 1900 La Plata, Argentina]

86-004712 Mingcheng, T. A NEW RECORD OF THE ALEPOCEPHALOID FISH *ALEPOCEPHALUS LONGICEPS* LLOYD FROM CHINA. *Oceanol. Limnol. Sin.* 17(1):91-92. 1986. In Chinese with English summ. FR 31(4)
[Inst. Oceanol., Acad. Sin., Qingdao, China]

86-004713 Minshull, J. L. A COLLECTION OF FISH FROM THE LOWER OKAVANGO SWAMP, BOTSWANA, WITH COMMENTS ON ASPECTS OF THEIR ECOLOGY. *Arnoldia Zimbabwe* 9(20):277-290. 1985. FR 31(4)
[Nat. Hist. Mus. Zimbabwe, (Natl. Mus.), P.O. Box 240, Bulawayo, Zimbabwe]

86-004714 Muth, K. M.; D. R. Wolfert and M. T. Bur. ENVIRONMENTAL STUDY OF FISH SPAWNING AND NURSERY AREAS IN THE ST. CLAIR-DETROIT RIVER SYSTEM. *Great Lakes Fish. Lab. Admin. Rep.* No.86-6. iv+54p. 1986. FR 31(4)
[U.S. FWS, Sandusky Biol. Stn., Sandusky, OH 44870]

86-004715 Nakamura, I. and J. R. Paxton. A JUVENILE GEMPYLID FISH, *NEALOTUS TRIPES*, FROM EASTERN AUSTRALIA. *Aust. Zool.* 19(2):179-184. 1977. FR 31(4)

86-004716 Novikov, Y. V. SOME TRENDS OF DISTRIBUTION AND MIGRATION OF COMMON PELAGIC FISHES OF THE NORTHWESTERN PACIFIC OCEAN. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):161-172. 1986. FR 31(4)
[TINRO, Vladivostok, USSR]

GEOGRAPHICAL DISTRIBUTION, FISH SURVEYS, ETC. (CONTINUED)

86-004717 Olmsted, L. L. and D. G. Cloutman. ABUNDANCE, DISTRIBUTION, AND STATUS OF THE FISHES OF THE CAROLINA SANDHILLS NATIONAL WILDLIFE REFUGE, CHESTERFIELD COUNTY, SOUTH CAROLINA. *IN: D. M. Forsythe and W. B. Ezell, Jr., eds. Proceedings of the First South Carolina Endangered Species Symposium.* 1976. p.126-129. FR 31(4)
[Environ. Lab., Rt. 4, Box 531, Huntersville, NC 28078]

86-004718 Ozerin, V. K. and O. N. Frolov. [DETECTION OF SARDINE FISHING GROUNDS BASED ON THE ANALYSIS OF THERMAL WATER STRUCTURE.] *IN: Mathematical and Informational Requirements for Natural Resource Studies. VNIRO,* 1985. p. 79-88. In Russian with English summ. FR 31(4)

86-004719 Parenti, L. R. BIOGEOGRAPHY OF THE ANDEAN KILLIFISH GENUS *ORESTIAS* WITH COMMENTS ON THE SPECIES FLOCK CONCEPT. *IN: A. A. Echelle and I. Kornfield, (eds.). Evolution of Fish Species Flocks. Univ. Me. Orono Press.* 1984. p.85-92. FR 31(4)

86-004720 Paulin, C. D. and A. L. Stewart. A LIST OF NEW ZEALIND TELEOST FISHES HELD IN THE NATIONAL MUSEUM OF NEW ZEALAND. *Natl. Mus. N.Z. Misc. Ser.* No.12. 63p. 1985. FR 31(4)
[Natl. Mus. N.Z., P.B., Wellington, New Zealand]

86-004721 Peden, A. E. and G. W. Hughes. FIRST RECORDS, CONFIRMATORY RECORDS, AND RANGE EXTENSIONS OF MARINE FISHES OFF CANADA'S WEST COAST. *Can. Field-Nat.* 100(1):1-9. 1986. FR 31(4)
[Aquatic Zool. Div., B. C. Prov. Mus., Victoria, BC V8V 1X4, Canada]

86-004722 Penaz, M. and M. I. Zaki. CYPRINODONT FISHES OF LAKE MARIUT, EGYPT. *Folia Zool.* 34(4):373-384. 1985. FR 31(4)
[Inst. Vert. Zool., Czech. Acad. Sci., Brno, Czechoslovakia]

86-004723 Persat, H.; E. Pattee and A. L. Roux. [ORIGIN AND CHARACTERISTICS OF THE DISTRIBUTION OF THE GRAYLING, *THYMALLUS THYMALLUS* (L., 1758) IN EUROPE AND FRANCE.] *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):2117-2121. 1977. In French with English summ. FR 31(4)

86-004724 Potter, I. C.; W. Ivantsoff; R. Cameron and J. Minnard. LIFE CYCLES AND DISTRIBUTION OF ATHERINIDS IN THE MARINE AND ESTUARINE WATERS OF SOUTHERN AUSTRALIA. *Hydrobiologia* 139(1):23-40. 1986. FR 31(4)
[Sch. Environ. Life Sci., Murdoch Univ., Murdoch, WA 6150, Australia]

86-004725 Propst, D. L. and C. A. Carlson. THE DISTRIBUTION AND STATUS OF WARMWATER FISHES IN THE PLATTE RIVER DRAINAGE, COLORADO. *Southwest. Nat.* 31(2):149-167. 1986. FR 31(4)
[Endangered Species Prog., N. Mex. Dep. Game Fish, Sante Fe 87501]

86-004726 Quiniou, L. and C. Deniel. BENTHIC FISH IN DOUARNENEZ BAY, THE ROADS OF BREST AND THE COASTAL WATERS OF THE IROISE SEA. *Oceans: Ser. Doc. Oceanogr.* 11(3):277-286. 1985. FR 31(4)
[Biol. Anim. Poissons Lab., Univ. Bretagne Occidental., F-29283 Brest, France]

86-004727 Randall, J. E. 106 NEW RECORDS OF FISHES FROM THE MARSHALL ISLANDS. *Bull. Mar. Sci.* 38(1):170-252. 1986. FR 31(4)
[Bernice P. Bishop Mus., P.O. Box 19000-A, Honolulu, HI 96817-9016]

GEOGRAPHICAL DISTRIBUTION, FISH SURVEYS, ETC. (CONTINUED)

86-004728 Raquel, P. F. JUVENILE BLUE CATFISH IN THE SACRAMENTO-SAN JOAQUIN DELTA OF CALIFORNIA. *Calif. Fish Game* 72(3):186-187. 1986. FR 31(4)
[Calif. Dep. Fish Game, 4001 North Wilson Way, Stockton, CA 95205]

86-004729 Reddin, D. G. and J. B. Dempson. ORIGIN OF ATLANTIC SALMON (*SALMO SALAR* L.) CAUGHT AT SEA NEAR NAIN, LABRADOR. *Nat. Can. (Que.)* 113(2):211-218. 1986. In English with French summ. FR 31(4)
[Dep. Fish. Oceans, P.O. Box 5667, St. John's, NF A1C 5X1, Canada]

86-004730 Rodrizuez, A.; E. Valdes-Munoz and R. Valdes. [LIST OF SCIENTIFIC AND COMMON NAMES OF CUBAN MARINE FISH.] *Cent. Invest. Pesq., Havana, Cuba* 82p. 1984. In Spanish. FR 31(4)

86-004731 Rubio R., E. A. [PRELIMINARY TAXONOMIC STUDIES OF THE ICHTHYOFAUNA OF MALAGA BAY (COLOMBIAN PACIFIC.] *An. Inst. Invest. Mar. Punta de Betin* 14:157-173. 1984. In Spanish with English summ. FR 31(4)
[Dep. Biol., Univ. Valle, Apt. 2188, Cali (Valle), Colombia]

86-004732 Sakamoto, W. and Y. Tanaka. WATER TEMPERATURE PATTERNS AND DISTRIBUTIONS OF FISH EGGS AND LARVAE IN THE VICINITY OF SHALLOW SEA FRONT. *Bull. Jpn. Soc. Sci. Fish.* 52(5):767-776. 1986. FR 31(4)
[Fac. Agric., Kyoto Univ., sakyo Kitashirakawa Oiwakecho, Kyota 606, Japan]

86-004733 Seigel, J. A.; L. J. V. Compagno and J. L. B. Smith. NEW RECORDS OF THE RAGGED-TOOTH SHARK, *ODONTASPIS FEROX*, FROM CALIFORNIA WATERS. *Calif. Fish Game* 72(3):172-176. 1986. FR 31(4)
[Sect. Ichthyol., Nat. Hist. Mus. Los Angeles Cty., 900 Exposition Blvd., Los Angles, CA 90007]

86-004734 Semenov, A. I. BEHAVIOURAL STUDIES AS A BASIS OF FISH DETECTION. *In: The Behavior of Commercial Fishes. VNIRO, Moscow, USSR.* 1985. p. 155-161. In Russian with English summ. Abstract only. FR 31(4)

86-004735 Skelton, P. H. DISTRIBUTION PATTERNS AND BIOGEOGRAPHY OF NON-TROPICAL SOUTHERN AFRICAN FRESH-WATER FISHES. *Paleontol. Afr. Surrounding Islands* 17:211-230. 1986. FR 31(4)
[J.L.B. Inst. Ichthyol., Grahamstown, South Africa]

86-004736 Squire, J. L., Jr. RELATIONSHIP OF SEA SURFACE TEMPERATURE ISOTHERM PATTERNS OFF NORTHWESTERN MEXICO TO THE CATCH OF STRIPED MARLIN, *TETRAPTURUS AUDAX*, OFF SOUTHERN CALIFORNIA. *Mar. Fish. Rev.* 47(3):43-47. 1985. FR 31(4)
[NMFS, P.O. Box 271, La Jolla, CA 92038]

86-004737 Stoner, A. W. COMMUNITY STRUCTURE OF THE DEMERSAL FISH SPECIES OF LAGUNA JOYUDA, PUERTO RICO. *Estuaries* 9(2):142-152. 1986. FR 31(4)
[Cent. Energy Environ. Res., Univ. Puerto Rico, Mayaguez, PR 00708]

86-004738 Swift, C. C. FIRST RECORD OF THE SPOTTED SCORPIONFISH, *SCORPAENA PLUMIERI*, FROM CALIFORNIA: THE CURTAIN FALLS ON "A COMEDY OF ERRORS". *Calif. Fish Game* 72(3):176-178. 1986. FR 31(4)
[Sect. Fishes, Nat. Hist. Mus. Los Angeles Cty., 900 Exposition Blvd., Los Angeles, CA 90007]

GEOGRAPHICAL DISTRIBUTION, FISH SURVEYS, ETC. (CONTINUED)

86-004739 Taylor, L. WHITE CHARKS IN HAWAII: HISTORICAL AND CONTEMPORARY RECORDS. *Mem. South. Calif. Acad. Sci.* 9:41-48. 1985. FR 31(4)
[Waikiki Aquarium, 2777 Kalakaua Ave., Honolulu, HI 96815]

86-004740 Uchida, R. N. and J. H. Uchiyama. FISHERY ATLAS OF THE NORTHWESTERN HAWAIIAN ISLANDS. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 2. p. 353. Abstract only. 1984. FR 31(4)
[NMFS, P.O. Box 3830, Honolulu, HI 96812]

86-004741 Victoria D., P. and D. P. Gomez N. [NEW RECORDS OF FISH FROM SAN ANDRES ISLAND COLOMBIAN CARIBBEAN SEA.] *An. Inst. Invest. Mar. Punta de Betin* 14:115-132. 1984. In Spanish with English summ. FR 31(4)
[INDERENA, Apt. 1176, Santa Marta (Mag.), Colombia]

86-004742 Waldron, K. D. ICHTHYOPLANKTON. *In: D. W. Hood and J. A. Calder. The Eastern Bering Sea Shelf: Oceanography and Resources.* p. 471-493. 1981. FR 31(4)
[NMFS, 2725 Montlake Blvd. East, Seattle, WA 98112]

86-004743 Whitehead, P. J. P. ; M. Bauchot; J. Hureau; J. Nielsen and E. Tortonese, (eds.). FISHES OF THE NORTH-EASTERN ATLANTIC AND THE MEDITERRANEAN. *Unesco, Paris, France* 510p. 1985. Available at $63.50. FR 31(4)

86-004744 Winterbottom, R. and A. R. Emery. REVIEW OF THE GOBIOID FISHES OF THE CHAGOS ARCHIPELAGO, CENTRAL INDIAN OCEAN. *R. Ont. Mus. Life Sci. Contrib.* 142. v+82p. 1986. FR 31(4)
[Dep. Ichthyol. Herpetol., Royal Ontario Mus., Toronto, ON M5S 2S6, Canada]

ABUNDANCE, FACTORS OF; SURVIVAL AND MORTALITY

86-004745 Beacham, T. D. and C. B. Murray. COMPARATIVE DEVELOPMENTAL BIOLOGY OF CHUM SALMON (*ONCORHYNCHUS KETA*) FROM THE FRASER RIVER, BRITISH COLUMBIA. *Can. J. Fish. Aquatic Sci.* 43(2):252-262. 1986. In English with French summ. FR 31(4)
[Dep. Fish. Oceans, Fish. Res. Br., Pac. Biol. Stn., Nanaimo, BC V9R 5K6, Canada]

86-004746 Becker, C. D.; D. A. Neitzel and D. W. Carlile. SURVIVAL DATA FOR DEWATERED RAINBOW TROUT (*SALMO GAIRDNERI* RICH.) EGGS AND ALEVINS. *J. Appl. Ichthyol.* 2(3):102-110. 1986. In English with french and German summ. FR 31(4)
[Environ. Sci. Dep., Pac. Northwest Lab., Richland, WA 99352] Survival of four intergravel development phases of rainbow trout, *Salmo gairdneri* Rich., in a dewatered environment varied with stage of development, duration of exposure, and relative humidity. Egg phases were considerably more tolerant than alevin phases. Cleavage eggs tolerated dewatering for 12 consecutive days (97% survival), the maximum period tested. Embryos tolerated dewatering until they began hatching on the eighth day, when mortalities sharply increased. In contrast, eleutheroembryos had only 43% survival when dewatered 6h and pre-emergent alevins had only 36% survival when dewatered 2h. A few dewatered embryos died when relative humidity was 100%, but mortality increased significantly at 90 and 80% relative humidity. Survival of alevin phases, but not egg phases, in residual, non-flowing water was limited by formation of oxygen deficits.

ABUNDANCE, FACTORS OF; SURVIVAL AND MORTALITY (CONTINUED)

86-004747 Bowlby, J. N. and J. C. Roff. TROUT BIOMASS AND HABITAT RELATIONSHIPS IN SOUTHERN ONTARIO STREAMS. *Trans. Am. Fish. Soc.* 115(4):503-514. 1986. FR 31(4)
[Dep. Zool., Univ. Guelph, Guelph, ON N1G 2W1, Canada]

86-004748 Castleberry, D. T. and J. J. Cech. PHYSIOLOGICAL RESPONSES OF A NATIVE AND AN INTRODUCED DESERT FISH TO ENVIRONMENTAL STRESSORS. *Ecology* 67(4):912-918. 1986. FR 31(4)
[Dep. Wildl. Fish. Biol., Univ. Calf., Davis 95616]

86-004749 Diamond, M. and P. M. Wakefield. THE CONSUMPTION OF EGGS OF THE PERCH, *PERCA FLUVIATILIS* L., BY MACROINVERTEBRATES IN THE FIELD. *Freshwater Biol.* 16(3):373-376. 1986. FR 31(4)
[Freshwater Fish Group, Dep. Zool., Univ. Liverpool, P.O. Box 147, Liverpool L69 3BX, Canada]

86-004750 Favorite, F. OVERVIEW OF FISHERIES OCEANOGRAPHY. *In: D. W. Hood and J. A. Calder. The Eastern Bering Sea Shelf: Oceanography and Resources.* p. 447-453. 1981. FR 31(4)
[NMFS, 2725 Montlake Blvd. East, Seattle, WA 98112]

86-004751 Fiedler, P. C.; R. D. Methot and R. P. Hewitt. EFFECTS OF CALIFORNIA EL NINO 1982-1984 ON THE NORTHERN ANCHOVY. *J. Mar. Res.* 44(2): 317-338. 1986. FR 31(4)
[NMFS, P.O. Box 271, La Jolla, CA 92038]

86-004752 Goff, G. P. REPRODUCTIVE SUCCESS OF MALE SMALLMOUTH BASS IN LONG POINT BAY, LAKE ERIE. *Trans. Am. Fish. Soc.* 115(3):415-423. 1986. FR 31(4)
[Dep. Fish. Oceans, P.O. Box 5667, St. Johns, NF A1C 5X1, Canada]

86-004753 Grossman, G. D.; M. C. Freeman; P. B. Moyle and J. O. Whitaker, Jr. STOCHASTICITY AND ASSEMBLAGE ORGANIZATION IN AN INDIANA STREAM FISH ASSEMBLAGE. *Am. Nat.* 126(2):275-285. 1985. FR 31(4)
[Sch. For. Resour., Univ. Ga., Athens 30602]

86-004754 Hamilton, K. and F. A. Mysak. POSSIBLE EFFECTS OF THE SITKA EDDY ON SOCKEYE (*ONCORHYNCHUS NERKA*) AND PINK SALMON (*ONCORHYNCHUS GORBUSCHA*) MIGRATION OFF SOUTHEAST ALASKA. *Can. J. Fish. Aquatic Sci.* 43(2):498-504. 1986. In English with French summ. FR 31(4).
[Dep. Meteorol., McGill Univ., Montreal, PQ H3A 2K6, Canada]

86-004755 Hart, R. C. ZOOPLANKTON ABUNDANCE, COMMUNITY STRUCTURE AND DYNAMICS IN RELATION TO INORGANIC TURBIDITY, AND THEIR IMPLICATIONS FOR A POTENTIAL FISHERY IN SUBTROPICAL LAKE LE ROUX, SOUTH AFRICA. *Freshwater Biol.* 16(3):351-371. 1986. FR 31(4)
[Inst. Freshwater Stud., Rhodes Univ., Grahamstown 6140, South Africa]

86-004756 Incze, L. and J. D. Schumacher. VARIABILITY OF THE ENVIRONMENT AND SELECTED FISHERIES RESOURCES OF THE EASTERN BERING SEA ECOSYSTEM. *AAAS Sel. Symp. Ser.* 99:109-144. 1986. FR 31(4)
[Coll. Ocean. Fish. Sci., Univ. Wash., Seattle 98195]

ABUNDANCE, FACTORS OF; SURVIVAL AND MORTALITY (CONTINUED)

86-004757 Ingraham, W. J., Jr. SHELF ENVIRONMENT. *In: D. W. Hood and J. A. Calder. The Eastern Bering Sea Shelf: Oceanography and Resources.* p. 455-469. 1981. FR 31(4)
[NMFS, 2725 Montlake Blvd. East, Seattle, WA 98112]

86-004758 Lehtonen, H. CHANGES IN COMMERCIALLY IMPORTANT FRESHWATER FISH STOCKS IN THE GULF OF FINLAND DURING RECENT DECADES. *Finn. Fish. Res.* No. 6. p. 61-70. 1985. FR 31(4)
[Finn. Game Fish. Res. Inst., Fish. Div., P.O. Box 193, SF-00131 Helsinki 13, Finland]

86-004759 Loudermilk, W. E. ASPECTS OF RAZORBACK SUCKER (*XYRAUCHEN TEXANUS*, ABBOTT) LIFE HISTORY WHICH HELP EXPLAIN THEIR DECLINE. *Proc. Desert Fishes Counc.* 13-15:67-72. 1985. FR 31(4)

86-004760 Lubinski, K. S.; A. Van Vooren; G. Farabee; J. Janecek and S. D. Jackson. COMMON CARP IN THE UPPER MISSISSIPPI RIVER. *Hydrobiologia* 136:141-154. 1986. FR 31(4)
[Ill. Nat. Hist. Surv., Grafton, IL 62037]

86-004761 Mahmoudi, B. AN ASSESSMENT OF VERMILION SNAPPER *(RHOMBOPLITES AURORUBENS)* POPULATION IN RESPONSE TO EXPLOITATION AND OCEANOGRPAHIC VARIABILITY IN THE SOUTH ATLANTIC BIGHT. *Ph.D. dissertatim, Univ. Miami* 244p. 1985. From Diss. Abstr. Int. B Sci. Eng. 47(3):962. 1986. FR 31(4)

86-004762 Meffe, G. K. EFFECTS OF FLOODING ON POPULATION DYNAMICS AND INTERACTIONS OF SONORAN TOPMINNOWS (*POECILIOPSIS OCCIDENTALIS*) AND MOSQUITOFISH (*GAMBUSIA AFFINIS*) IN ARIZONA. *Proc. Desert Fishes Counc.* 13-15:64-66. 1985. FR 31(4)

86-004763 Mikhajlyuk, A. N. FACTORS DETERMINING THE ABUNDANCE OF YOUNG BLACK SEA SCAD. *In: Oceanographic and Fishery Investigations of the Black Sea. VNIRO, Moscow, USSR.* p.81-87. 1985. In Russian with English summ. FR 31(4)

86-004764 Mysak, L. A. A NOTE ON "EL NINO, INTERANNUAL VARIABILITY AND FISHERIES IN THE NORTHEAST PACIFIC OCEAN". *Can. J. Fish Aquatic Sci.* 43(7):1467-1468. 1986. FR 31(4)
[Dep. Math., Univ. British Columbia, Vancouver, BC V6T 1Y4, Canada]

86-004765 Nelson, F. A. SOME TROUT-FLOW RELATIONSHIPS IN MONTANA. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 122-126. 1985. FR 31(4)
[Mont. Dep. Fish Wildl. Parks, Bozeman]

86-004766 Nickelson, T. E. INFLUENCES OF UPWELLING, OCEAN TEMPERATURE, AND SMOLT ABUNDANCE ON MARINE SURVIVAL OF COHO SALMON (*ONCORHYNCHUS KISUTCH*) IN THE OREGON PRODUCTION AREA. *Can. J. Fish. Aquatic Sci.* 43(3):527-535. 1986. In English with French summ. FR 31(4)
[Res. Dev. Sect., Oreg. Dep. Fish Wildl., Corvallis 97331]

86-004767 Ojaveer, E.; M. Kaleis; R. Aps; I. Lablaika and M. Vitins. THE IMPACT OF RECENT ENVIRONMENTAL CHANGES ON THE MAIN COMMERCIAL FISH STOCKS IN THE GULF OF FINLAND. *Finn. Fish. Res.* No. 6. p. 1-14. 1985. FR 31(4)

ABUNDANCE, FACTORS OF; SURVIVAL AND MORTALITY (CONTINUED)

86-004767 CONTINUED
[Tallinn Dep. Baltic Fish. Res. Inst., Apteegi 1-2, Tallinn, 200001 Estonian SSR, USSR]

86-004768 Olsson, T. I. and B. Persson. EFFECTS OF GRAVEL SIZE AND PEAT MATERIAL CONCENTRATIONS ON EMBRYO SURVIVAL AND ALEVIN EMERGENCE OF BROWN TROUT, *SALMO TRUTTA* L. *Hydrobiologia* 135(1-2):9-14. 1986. FR 31(4)
[Inst. Ecol. Zool., Univ. Umea, S-901 87 Umea, Sweden]

86-004769 Poe, T. P.; C. O. Hatcher; C. L. Brown and D. W. Schloesser. COMPARISON OF SPECIES COMPOSITION AND RICHNESS OF FISH ASSEMBLAGES IN ALTERED AND UNALTERED LITTORAL HABITATS. *Great Lakes Fish. Lab. Admin. Rep.* No. 86-1. 17p. 1986. FR 31(4)
[U.S. FWS, Great Lakes Fish. Lab., 1451 Green Rd., Ann Arbor, MI 48105]

86-004770 Rago, P. J. and J. G. Wiener. DOES pH AFFECT FISH SPECIES RICHNESS WHEN LAKE AREA IS CONSIDERED? *Trans. Am. Fish. Soc.* 115(3):438-447. 1986. FR 31(4)
[U.S. FWS, Box 700, Kearneysville, WV 25430]

86-004771 Ross, S. T.; W. J. Matthews and A. A. Echelle. PERSISTENCE OF STREAM FISH ASSEMBLAGES: EFFECTS OF ENVIRONMENTAL CHANGE. *Am. Nat.* 126(1):24-40. 1985. FR 31(4)
[Univ. South Miss., Hattiesburg]

86-004772 Sagar, P. M. THE EFFECTS OF FLOODS ON THE INVERTIBRATE FAUNA OF A LARGE, UNSTABLE BRAIDED RIVER. *N. Z. J. Mar. Freshwater Res.*. 20(1): 37-46. 1986. FR 31(4)
[Fish. Res. Div., P.O. Box 8324, Riccarton, Christchurch, New Zealand]

86-004773 Schaffner, F. C. TRENDS IN ELEGANT TERN AND NORTHERN ANCHOVY POPULATIONS IN CALIFORNIA. *Condor* 88(3):347-354. 1986. FR 31(4)
[Dep. Biol., Univ. Miami, P.O. Box 249118, Coral Gables, FL 33124]

86-004774 Schoenherr, A. A. REPLACEMENT OF *CYPRINODON MACULARIUS* BY *TILAPIA ZILLII* IN AN IRRIGATION DRAIN NEAR THE SALTON SEA. *Proc. Desert Fishes Counc.* 13-15:65-66. 1985. FR 31(4)

86-004775 Sedell, J. R.; J. E. Yuska and R. W. Speaker. HABITATS AND SALMONID DISTRIBUTION IN PRISTINE, SEDIMENT-RICH RIVER VALLEY SYSTEMS: S. FORK HOH AND QUEETS RIVER, OLYMPIC NATIONAL PARK. *IN W. R. Meehan; T. R. Merrell, Jr. and T. A. Hanley (eds.). Fish and Wildlife Relationships in Old-Growth Forests. (Am. Inst. Fish. Res. Biol.).* p. 33-46. 1984. Available @ $20.00 From J. W. Reintjes, Rt. 4, Box 85, Morehead City, NC 28557. FR 31(4)
[USDA For. Serv., Corvallis, OR] Four distinct running-water habitats are defined and examined on the South Fork Hoh River and Upper Queets River--main river channel, river off-channel areas, terrace tributaries, and valley-wall tributaries. Species compositions, densities, and total fish biomasses are distinctly different for each habitat examined. Habitat formed by the main river channel and its tributaries is controlled by the valley terrace structure and the modifying effects of large woody debris. Large woody debris is important to all habitats regardless of size of stream. Without large wood, spawning and rearing-habitat quality would be poorer, even in the large, sediment-rich main channel. Large wood-capped side channels had eight times the coho salmon (*Oncorhynchus kisutch*)

ABUNDANCE, FACTORS OF; SURVIVAL AND MORTALITY (CONTINUED)

86-004775 CONTINUED densities as side channels without debris. During late summer, the majority of juvenile salmonid rearing occurs in river side-channel areas and trubutaries.

86-004776 Shepherd, B. G.; G. F. Hartman and W. J. Wilson. RELATIONSHIPS BETWEEN STREAM AND INTRAGRAVEL TEMPERATURES IN COASTAL DRAINAGES, AND SOME IMPLICATIONS FOR FISHERIES WORKERS. *Can. J. Fish. Aquatic Sci.* 43(9): 1818-1822. 1986. In English with French summ. FR 31(4)
[Salmon Enhancement Prog., 1090 West Pender St., Vancouver, BC V6E 2P1, Canada]

86-004777 Testa, R.; D. B. Siniff; M. J. Ross and J. D. Winter. WEDDELL SEAL-ANTARCTIC COD INTERACTIONS IN MCMURDO SOUND, ANTARCTICA. *In : W. R. Siegfried, P. R. Condy, and R. M. Laws (eds.). Antarctic Nutrient Cycles and Food Webs. Fourth SCAR Symp. Antarctic Biol.* p. 561-565. 1985. FR 31(4)
[Dep. Ecol. Behav. Biol., Univ. Minn., Minneapolis 55455]

86-004778 Thorman, S. SEASONAL COLONISATION AND EFFECTS OF SALINITY AND TEMPERATURE ON SPECIES RICHNESS AND ABUNDANCE OF FISH OF SOME BRACKISH AND ESTUARINE SHALLOW WATERS IN SWEDEN. *Holarctic Ecol.* 9(2):126-132. 1986. FR 31(4)
[Dep. Zool., Uppsala Univ., P.O. Box 561, S-751 22 Uppsala, Sweden]

86-004779 Veerabhadran, N. HABITAT SELECTION AND SPAWNING BEHAVIOUR OF BANDED SUNFISH AS INFLUENCED BY LARGE MOUTH BASS. *Ph.D. dissertation, Univ. Conn.* 102p. 1985. From Diss. Abstr. Int. B. Sci. Eng. 47(1):102. 1986. FR 31(4)

86-004780 Walters, C. J.; M. Stocker; A. V. Tyler and S. J. Westrheim. INTERRACTION BETWEEN PACIFIC COD (*GADUS MACROCEPHALUS*) AND HERRING (*CLUPEA HARENGUS PALLASI*) IN THE HECATE STRIAT, BRITISH COLUMBIA. *Can. J. Fish. Aquatic Sci.* 43(4):830-837. 1986. In English with Frech summ. Fr 31(4)
[Inst. Anim. Resour. Ecol., Univ. British Columbia, Vancouver, BC V6T 1W5, Canada]

86-004781 Zalewski, M. and R. J. Naiman. THE REGULATION OF RIVERINE FISH COMMUNITIES BY A CONTINUUM OF ABIOTIC-BIOTIC FACTORS. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 3-9. In English with French summ. FR 31(4)

IDENTIFICATION, KEYS, CLASSIFICATION

86-004782 Ahlstrom, E. H.; W. J. Richards and S. H. Weitzman. FAMILIES GONOSTOMATIDAE, STERNOPTYCHIDAE, AND ASSOCIATED STOMIIFORM GROUPS: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 184-198. 1984. FR 31(4)

86-004783 Ahlstrom, E. H.; H. G. Moser and D. M. Cohen. ARGENTINOIDEI: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 155-169. 1984. FR 31(4)

IDENTIFICATION, KEYS, CLASSIFICATION (CONTINUED)

86-004784 Allen, G. R. THREE NEW SPECIES OF DEEP-DWELLING DAMSELFISHES (POMACENTRIDAE) FROM THE SOUTH-WEST PACFIC OCEAN. *Aust. Zool.* 18(1):31-42. 1973. FR 31(4)

86-004785 Allen, L. G. GOBIESOCIFORMES: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 629-636. 1984.

86-004786 Anderson, M. E. ZOARCIDAE: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 578-582. 1984. FR 31(4)

86-004787 Anuradha, S. CONTRIBUTIONS TO THE STUDY OF BAGRID FISHES. 19. SYSTEMATIC POSITION OF *MACRONES HALEPENSIS COLVILLII* HORA & MISRA, 1943, WITH DESCRIPTION OF A NEW SPECIES (SILURIFORMES, BAGRIDAE). *Rev. Suisse Zool.* 93(2):291-296. 1986. FR 31(4)
[Zool. Surv. India, Fire Proof Spirit Bldg., Indian Mus., 27 Jawaharlal Nehru Rd., Calcutta 700 016, India]

86-004788 Arturo Acero, P. THE CHAENOPSINE BLENNIES OF THE SOUTHWESTERN CARIBBEAN (PISCES: CLINIDAE: CHAENOPSINAE) I. SYSTEMATIC ANALYSIS AND ZOOGEOGRAPHY. *An. Inst. Invest. Mar. Punta de Betin* 14:29-46. 1984. In Spanish with English summ. FR 31(4)
[INVEMAR, Apt. 1016, Santa Marta, Colombia]

86-004789 Artyukhin, E. N. and Z. G. Zarkua. TAXONOMIC STATUS OF STURGEON OF THE RIONI RIVER (BLACK SEA BASIN). *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):29-36. 1986. FR 31(4)
[Main Fish. Dir., Leningrad, USSR]

86-004790 Ayling, A. M. and B. C. Russell. THE LABRID FISH GENUS *PSEUDOJULOIDES*, WITH DESCRIPTION OF A NEW SPECIES. *Aust. Zool.* 19(2):169-178. 1977. FR 31(4)

86-004791 Balushkin, A. V. and V. V. Fedorov. *CAULOPHRYNE PIETSCHI* SP. NOV.--A NEW SPECIES OF MOSS ANGLERFISH (CAULOPHRYNIDAE) FROM THE NOTAL REGIONS OF THE SOUTHWESTERN PACIFIC OCEAN. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(1):151-154. 1986. FR 31(4)
[ZIN, Leningrad, USSR]

86-004792 Bath, H. and B. Hutchins. [THE BLENNIINI OF AUSTRALIA AND NEW ZEALAND WITH A DESCRIPTION OF A NEW SPECIES AND SUBSPECIES.] *Senckenb. Biol.* 66(4-6):167-213. 1986. In German with English summ. FR 31(4)
[Luisenstr. 45, D-6780 Pirmasens, West Germany]

86-004793 Beamish, R. J. FRESHWATER PARASITIC LAMPREY ON VANCOUVER ISLAND AND A THEORY OF THE EVOLUTION OF THE FRESHWATER PARASITIC AND NON PARASITIC LIFE HISTORY TYPES. *IN: R. E. Foreman; A. Gorbman; J. M. Dodd and R. Olsson (eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 123-140. FR 31(4)
[Pac. Biol. Stn., Nanaimo, BC V9R 5K6, Canada]

86-004794 Beckham, E. C. III. SYSTEMATICS AND REDESCRIPTION OF THE BLACKSIDE DARTER, *PERCINA MACULATA* (GIRARD), (PISCES: PERCIDAE). *Occas. Pap. Mus. Zool. La. State Univ.* No. 62. 11p. 1986. FR 31(4)
[Mus. Zool., La. State Univ., Baton Rouge 70803]

IDENTIFICATION, KEYS, CLASSIFICATION (CONTINUED)

86-004795 Bertelsen, E. and N. B. Marshall. MIRAPINNATOIDEI: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 380-383. 1984. FR 31(4)

86-004796 Bertelsen, E. and T. Pietsch. RESULTS OF THE RESEARCH CRUISES OF FRV "WALTHER HERWIG" TO SOUTH AMERICA. A RESURRECTION OF THE CERATIOID ANGLERFISH *CERATIAS TENTACULATUS* (NORMAN, 1930) WITH NOTES ON THE OCCURRENCE OF THE SPECIES OF *CERATIAS* IN THE ATLANTIC OCEAN (PISCES: LOPHIIFORMES). *Arch. Fischereiwiss.* 35(1-2):43-51. 1984. In English with German summ. FR 31(4)
[Univ. Zool. Mus., Kobenhavn, Denmark]

86-004797 Bertelsen, E. CERATIOIDEI: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 325-334. 1984. FR 31(4)

86-004798 Bjerring, H. C. FACTS AND THOUGHTS ON PISCINE PHYLOGENY. *IN: R. E. Foreman; A. Gorbman; J. M. Dodd and R. Olsson (eds.). Evolutionary Biology of Primitive Fishes. Plenum Press.* 1985. p. 31-57. FR 31(4)
[Dep. Palaeozool., Swed. Mus. Nat. Hist., S-104 05 Stockholm, Sweden]

86-004799 Bock, M. and C. D. Zander. OSTEOLOGICAL CHARACTERS AS TOOL FOR BLENNIID TAXONOMY--A GENERIC REVISION OF EUROPEAN BLENNIIDAE (PERCOMORHPHI; PISCES). *Z. Zool. Syst. Evolutionsforsch.* 24(2):138-143. 1986. In English with German summ. FR 31(4)
[Zool. Inst. Zool. Mus., Univ. Hamburg, Martin-Luther-King-Platz 3, D-2000 Hamburg 13, West Germany]

86-004800 Bruss, R. [DEEPWATER FISH OF THE RED SEA. X. *PHYSICULUS MARIRUBRI* N. SP. FROM THE RED SEA AND *P. NORMANI* N. SP. FROM THE EAST AFRICAN COAST.] *Senckenb. Biol.* 66(4-6):215-249. 1986. In German with English summ. FR 31(4)
[Konrad-Adenauer-Str. 42, D-5130 Geilenkirchen, West Germany]

86-004801 Cambrony, M. [IDENTIFICATION AND RECRUITMENT PERIODICITY OF GREY MULLET FRY IN THE MEDITERRANEAN LAGOONS.] *Vie Milieu* 34(4):221-227. 1984. In French with English summ. FR 31(4)
[Lab. Biol. Mar., Univ. Perpignan, Ave. Villeneuve, 66025 Perpignan, France]

86-004802 Castle, P. H. J. RESULTS OF THE RESEARCH CRUISES OF FRV "WALTHER HERWIG" TO SOUTH AMERICA. L. A NEW GENUS AND SPECIES OF BOBTAIL EEL (ANGUILLIFORMES, CYEMIDAE) FROM THE SOUTH ATLANTIC. *Arch. Fischereiwiss.* 28(2-3):69-76. 1977. In English with German summ. FR 31(4)

86-004803 Chervinski, J. IDENTIFICATION OF ADDITIONAL TILAPIA FROM LAKE KINNERET, ISRAEL, BY THE FORM OF THEIR SCALES. *Aquaculture* 55(2):157-159. 1986. FR 31(4)
[Fish Aquacult. Res. Stn., Dor, M.P. 30820, Israel]

86-004804 Cohen, D. M. GADIFORMES: OVERVIEW. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 259-265. 1984. FR 31(4)

IDENTIFICATION, KEYS, CLASSIFICATION (CONTINUED)

86-004805 Cohen, D. M. ONTOGENY, SYSTEMATICS AND PHYLOGENY. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 7-11. 1984. FR 31(4)

86-004806 Collette, B. B.; T. Potthoff; W. J. Richards; S. Ueyanagi; J. L. Russo and Y. Nishikawa. SCOMBROIDEI: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 591-620. 1984. FR 31(4)

86-004807 Collette, B. B. ATHERINOMORPHA: INTRODUCTION. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 334. 1984. FR 31(4)

86-004808 Collette, B. B.; G. E. McGowen; N. V. Parin and S. Mito. BELONIFORMES: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 335-354. 1984. FR 31(4)

86-004809 De Lafontaine, Y. USEFUL MORPHOMETRIC INDEX FOR THE IDENTIFICATION OF NORTHERN BLENNIOID LARVAL FISHES. *Nat. Can. (Que.)* 113(2):219-222. 1986. In English with French summ. FR 31(4)
[Dep. Oceanogr., Univ. Quebec, 300 ave. Ursulines, Rimouski, PQ G5L 3A1, Canada]

86-004810 De Sylva, D. P. MUGILOIDEI: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 530-533. 1984. FR 31(4)

86-004811 De Sylva, D. P. SPHYRAENOIDEI: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 534-540. 1984. FR 31(4)

86-004812 De Sylva, D. P. POLYNEMOIDEI: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 540-541. 1984. FR 31(4)

86-004813 Dunn, J. R. and A. C. Matarese. GADIDAE: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ithhthyol. Herpetol. Spec. Publ.* No. 1. p. 283-299. 1984. FR 31(4)

86-004814 Eakin, R. R. and K. Kock. FISHES OF THE GENUS *POGONOPHRYNE* (PISCES, HARPAGIFERIDAE) COLLECTED DURING CRUISES OF THE FEDERAL REPUBLIC OF GERMANY (1975-1981) IN WEST ANTARCTICA AND IN THE WEDDELL SEA. *Arch. Fishereiwiss.* 35(1-2):17-42. 1984. In English with German summ. FR 31(4)
[Westbrook Coll., Portland, OR]

86-004815 Echelle, A. A. and A. F. Echelle. EVOLUTIONARY GENETICS OF A "SPECIES FLOCK." ATHERINID FISHES ON THE MESA CENTRAL OF MEXICO. *IN: A. A. Echelle and I. Kornfield, (eds.). Evolution of Fish Species Flocks. Univ. Me. Orono Press.* 1984. p.93-110. FR 31(4)

86-004816 Echelle, A. and I. Kornfield. EVOLUTION OF FISH SPECIES FLOCKS. *Univ. Me. Orono Press* X+257p. 1984. FR 31(4)
[Okla. State Univ., Stillwater]

IDENTIFICATION, KEYS, CLASSIFICATION (CONTINUED)

86-004817 Estes, R. FISH, AMPHIBIANS AND REPTILES FROM THE ETADUNNA FORMATION, MIOCENE OF SOUTH AUSTRALIA. *Aust. Zool.* 21(4-5):335-343. 1984. FR 31(4)
[Dep. Zool., San Diego State Univ., San Diego, CA 92182]

86-004818 Etnier, D. A. and W. C. Starnes. *ETHEOSTOMA LYNCEUM* REMOVED FROM THE SYNONYMY OF *E. ZONALE* (PISCES, PERCIDAE). *Copeia* 1986(3):832-836. 1986. FR 31(4)
[Dep. Zool., Univ. Tenn., Knoxville 37996-0810]

86-004819 Fahay, M. P. and D. F. Markle. GADIFORMES: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 265-283. 1984. FR 31(4)

86-004820 Farquharson, F. L. A NEW FRESHWATER GOBI (GOBIIDAE) FROM LAKE SIBAYI, ZULULAND, SOUTH AFRICA. *Ann. Cape Prov. Mus. Nat. Hist.* 8(10): 85-87. 1970. FR 31(4)

86-004821 Fink, W. L. BASAL EUTELEOSTS: RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 202-206. 1984. FR 31(4)

86-004822 Fink, W. L. SALMONIFORMS: INTRODUCTION. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 139. 1984. FR 31(4)

86-004823 Fink, W. L. STOMIIFORMS: RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 181-184. 1984. FR 31(4)

86-004824 Foreman, R. E.; A. Gorman; J. M. Dodd and R. Olsson. EVOLUTIONARY BIOLOGY OF PRIMITIVE FISHES. *Plenum Press* viii+463p. 1985. A collection of papers.--RS FR 31(4)

86-004825 Fraser, T. H. and J. E. Randall. A NEW SPECIES OF THE CARDINALFISH GENUS *APOGON* FROM EASTER ISLAND. *Copeia* 1986(3):641-645. 1986. FR 31(4)
[Environmental Quality Laboratory, Inc., 1009 Tamiami Trail, Port Charlotte, FL 33953]

86-004826 Fritzsche, R. A. GASTEROSTEIFORMES: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 398-405. 1984. FR 31(4)

86-004827 Fuiman, L. A. OSTARIOPHYSI: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 126-137. 1984. FR 31(4)

86-004828 Gans, C. SCENARIOS: WHY? *IN: R. E. Foreman, A. Gorbman, J. M. Dodd and R. Olsson (eds.). Evolutionary Biology of Primative Fishes. Plenum Press.* 1985. p. 1-9. FR 31(4)
[Div. Biol. Sci., Univ. Mich., Ann Arbor 48109-1048]

IDENTIFICATION, KEYS, CLASSIFICATION (CONTINUED)

86-004829 Gordon, D. J.; D. F. Markle and J. E. Olney. OPHIDIIFORMES: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 308-319. 1984. FR 31(4)

86-004830 Greenwood, P. H. AFRICAN CHICHLIDS AND EVOLUTIONARY THEORIES. *IN: A. A. Echelle and I. Kornfield, (eds.). Evolution of Fish Species Flocks. Univ. Me. Orono Press.* 1984. p.141-154. FR 31(4)

86-004831 Greenwood, P. H. WHAT IS A SPECIES FLOCK. *IN:A. A. Echelle and I. Kornfield, (eds.). Evolution of Fish Species Flocks. Univ. Me. Orono Press.* 1984. p.13-19. FR 31(4)

86-004832 Hardy, G. S. TWO NEW GENERIC NAMES FOR SOME AUSTRALIAN PUFFERFISHES (TETRAODONTIFORMES: TETRAODONTIDAE), WITH SPECIES' REDESCRIPTIONS AND OSTEOLOGICAL COMPARISONS. *Aust. Zool.* 21(1):1-26. 1982. FR 31(4)
[Natl. Mus. N.Z., P.B., Wellington. New Zealsnd]

86-004833 Hardy, G. S. TWO NEW GENERIC NAMES OF SOME AUSTRALIAN PUFFERFISHES (TETRAODONTIFORMES: TETRAODONTIDAE), WITH SPECIES REDESCRIPTIONS AND OSTEOLOGICAL COMPARISONS. *Aust. Zool.* 21(1):1-26. 1982. FR 31(4)
[Natl. Mus. N.Z., P.B., Wellington, New Zealand]

86-004834 Hearne, M. E. OSMERIDAE: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 153-155. 1984. FR 31(4)

86-004835 Heemstra, P. C. and J. E. Wright. TWO NEW SPECIES OF CLINID FISHES (PERCIFORMES: CLINIDAE) FROM SOUTH AFRICA. *J. L. B. Smith Inst. Ichthyol. Spec. Publ.* No. 40. 11p. 1986. FR 31(4)
[J. L. B. Smith Inst. Ichthyol., P.B. 1015, Grahamstown, South Africa]

86-004836 Hensley, D. A. and E. H. Ahlstrom. PLEURONECTIFORMES: RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 670-687. 1984. FR 31(4)

86-004837 Hoese, D. F. A REDESCRIPTION OF *HETEROCLINUS ADELAIDAE* CASTELNAU (PISCES: CLINIDAE), WITH DESCRIPTION OF A RELATED NEW SPECIES. *Aust. Zool.* 19(1):51-67. 1976. FR 31(4)

86-004838 Hoese, D. F. and R. Lubbock. A REVIEW OF THE GENUS *MYERSINA* (PISCES: GOBIIDAE), WITH THE DESCRIPTION OF A NEW SPECIES. *Aust. Zool.* 21(1):47-54. 1982. FR 31(4)
[Aust. Mus. 6-8 College St., Sydney, NSW 2000, Australia]

86-004839 Hoese, D. F. and R. Lubbock. A REVIEW OF THE GENUS *MYERSINA* (PISCES: GOBIIDAE), WITH THE DESCRIPTION OF A NEW SPECIES. *Aust. Zool.* 21(1):47-54. 1982. FR 31(4)
[Aust. Mus., 6-8 College St., Sydney, NSW 2000, Australia]

86-004840 Hoese, D. F. GOBIOIDEI: RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 588-591. 1984. FR 31(4)

IDENTIFICATION, KEYS, CLASSIFICATION (CONTINUED)

86-004841 Horn, M. H. STROMATEOIDEI: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 620-628. 1984. FR 31(4)

86-004842 Houde, E. D. BREGMACEROTIDAE: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 300-308. 1984. FR 31(4)

86-004843 Houde, E. D. CALLIONYMIDAE: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 637-640. 1984. FR 31(4)

86-004844 Hulley, P. A. A TAXONOMIC REVIEW OF THE LANTERNFISH GENUS *TRIPHOTURUS* FRASER-BRUNNER, 1949 (MYCTOPHIDAE, OSTEICHTHYES). *Ann. South Afr. Mus.* 97(4):71-95. 1986. FR 31(4)
[Dep. Mar. Biol., South Afr. Mus., Cape Town, South Africa]

86-004845 Ivantsoff, W. and G. R. Allen. TWO NEW SPECIES OF *PSEUDOMUGIL* (PISCES: MELANOTAENIIDAE) FROM IRIAN JAYA AND NEW GUINEA. *Aust. Zool.* 21(5):479-489. 1984. FR 31(4)
[Sch. Biol. Sci., Macquarie Univ., North Ryde, NSW 2113, Australia]

86-004846 Ivantsoff, W. and G. R. Allen. TWO NEW SPECIES OF *PSEUDOMUGIL* (PISCES: MELANOTAENIIDEA) FROM IRIAN JAYA AND NEW GUINEA. *Aust. Zool.* 21(4-5):479-489. 1984. FR 31(4)
[Sch. Biol. Sci., Macquarie Univ., North Ryde, NSW 2113, Australia]

86-004847 Iwamoto, T. *VENTRIFOSSA JOHNBOBORUM*, A NEW GRENADIER FROM THE WESTERN PACFIC (MACROURIDAE: PISCES). *Aust. Zool.* 21(2):55-61. 1982. FR 31(4)
[Dep. Ichthyol., Calif. Acad. Sci., Golden Gate Park, San Francisco, CA 94118]

86-004848 Iwamoto, T. *VENTRIFOSSA JOHNBOBORUM*, A NEW GRENADIER FROM THE WESTERN PACIFIC (MACROURIDAE: PISCES). *Aust. Zool.* 21(1):55-61. 1982. FR 31(4)
[Dep. Ichthyol., Calif. Acad. Sci., Golden Gate Park, San Francisco, CA 94118]

86-004849 Iwata, A.; A. Goto and K. Hamada. A REVIEW OF THE SIBERIAN LAMPREY, *LETHENTERON KESSLERI*, IN HOKKAIDO, JAPAN. *Bull. Fac. Fish. Hokkaido Univ.* 36(4):182-190. 1985. FR 31(4)
[Lab. Ichthyol., Crown Princis Palace, Japan]

86-004850 Johnson, G. D. PERCOIDEI: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 464-498. 1984. FR 31(4)

86-004851 Johnson, R. K. EVERMANNELLIDAE: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 250-254. 1984. FR 31(4)

86-004852 Johnson, R. K. GIGANTURIDAE: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 199-201. 1984. FR 31(4)

IDENTIFICATION, KEYS, CLASSIFICATION (CONTINUED)

86-004853 Johnson, R. K. SCOPELARCHIDAE: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 245-250. 1984. FR 31(4)

86-004854 Jubb, R. A. and P. Le Roux. REVISION OF THE *CHILOGLANIS* (PISCES: MOCHOKIDAE) OF SOUTHERN AFRICA AND DESCRIPTIONS OF TWO NEW SPECIES. *Ann. Cape Prov. Mus. Nat Hist.* 8(2):13-23. 1969. FR 31(4)

86-004855 Keene, M. J. and K. A. Tighe. BERYCIFORMES: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 383-392. 1984. FR 31(4)

86-004856 Kenchington, T. J. MORPHOLOGICAL COMPARISON OF TWO NORTHWEST ATLANTIC REDFISHES, *SEBASTES FASCIATUS* AND *S. MENTELLA*, AND TECHNIQUES FOR THEIR IDENTIFICATION. *Can. J. Fish. Aquatic Sci.* 43(4): 781-787. 1986. In English with French summ. FR 31(4)
[CSIRO Div. Fish. Res., G.P.O. Box 1538, Hobart, Tasmania 7001, Australia]

86-004857 Kendall, A. W., Jr. SERRANIDAE: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 499-510. 1984. FR 31(4)

86-004858 Kendall, A. W., Jr. and R. J. Behnke. SALMONIDAE: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. P. 142-149. 1984. FR 31(4)

86-004859 Kornfield, I. and K. E. Carpenter. CYPRINIDS OF LAKE LANAO, PHILIPPINES: TAXONOMIC VALIDITY, EVOLUTIONARY RATES AND SPECIATION SCENARIOS. *IN: A. A. Echelle and I. Kornfield, (eds.). Evolution of Fish Species Flocks. Univ. Me. Orono Press.* 1984. p.69-84. FR 31(4)

86-004860 Kotlyar, A. N. [DICTIONARY OF NAMES OF MARINE FISHES ON THE SIX LANGUAGES.] *All Union Res. Inst. Mar. Fish. Oceanogr.* 288p. 1984. In Russian, English, German, Spanish, French and Latin. FR 31(4)
[All Union Res. Inst. Mar. Fish. Oceanogr., Moscow, USSR]

86-004861 Leiby, M. M. OPHICHTHIDAE: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 102-108. 1984. FR 31(4)

86-004862 Leis, J. M. and W. J. Richards. ACANTHUROIDEI: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 547-551. 1984. FR 31(4)

86-004863 Leis, J. M. TETRAODONTIFORMES: RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 459-463. 1984. FR 31(4)

86-004864 Leslie, J. K. and J. F. Gorrie. DISTINGUISHING FEATURES FOR SEPARATING PROTOLARVAE OF THREE SPECIES OF ESOCIDS. *Can. Tech. Rep. Fish. Aquatic Sci.* No. 1359. p. 1-19. 1985. FR 31(4)
[Great Lakes Fish. Res. Br., Burlington, ON, Canada]

IDENTIFICATION, KEYS, CLASSIFICATION (CONTINUED)

86-004865 Lovtrup, S. ON PROGRESSIVE EVOLUTION AND COMPETITIVE EXTINCTION. *Environ. Biol. Fishes* 17(1):3-12. 1986. FR 31(4)
[Dep. Zoophysiol., Univ. Umea, S-901 87 Umea, Sweden]

86-004866 Martin, F. D. ESOCOIDEI: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 140-142. 1984. FR 31(4)

86-004867 Matarese, A. C.; E. G. Stevens and W. Watson. ICOSTEOIDEI: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 576-577. 1984. FR 31(4)

86-004868 Matarese, A. C.; W. Watson and E. G. Stevens. BLENNIOIDEA: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 565-573. 1984. FR 31(4)

86-004869 Mayden, R. L. PHYLOGENETIC STUDIES OF NORTH AMERICAN MINNOWS, WITH EMPHASIS ON THE GENUS *CYPRINELLA* (TELEOSTEI: CYPRINIFORMES). *Ph.D. dissertation, Univ. Kans.* 568p. 1985. From Diss. Abstr. Int. B Sci. Eng. 47(2):533. 1986. FR 31(4)

86-004870 Mayr, E. EVOLUTION OF FISH SPECIES FLOCKS: A COMMENTARY. *IN: A. A. Echelle and I. Kornfield, (eds.). Evolution of Fish Species Flocks. Univ. Me. Orono Press.* 1984. p.3-11. FR 31(4)

86-004871 McCune, A. R.: K. S. Thomson and P. E. Olsen. SEMIONOTID FISHES FROM THE MESOZOIC GREAT LAKES OF NORTH AMERICA. *IN: A. A. Echelle and I. Kornfield, (eds.). Evolution of Fish Species Flocks. Univ. Me. Orono Press.* 1984. p.27-44. FR 31(4)

86-004872 McDowall, R. M. SOUTHERN HEMISPHERE FRESHWATER SALMONIFORMS: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 150-153. 1984. FR 31(4)

86-004873 McGowan, M. F. and F. H. Berry. CLUPEIFORMES: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 108-126. 1984. FR 31(4)

86-004874 McKaye, K. R. and W. N. Gray. EXTRINSIC BARRIERS TO GENE FLOW IN ROCK-DWELLING CICHLIDS OF LAKE MALAWI: MACROHABITAT HETEROGENEITY AND REEF COLONIZATION. *IN: A. A. Echelle and I. Kornfield, (eds.). Evolution of Fish Species Flocks. Univ. Me. Orono Press.* 1984. p. 169-183. FR 31(4)

86-004875 Miliang, Z. and Y. Jiping. [A NEW SPECIES OF THE GENUS *GOBIOBOTIA* (PISCES, CYPRINIDAE).] *Acta Zool. Sin.* 32(1):58-61. 1986. In Chinese with English summ. FR 31(4)
[Zhejiang Fish. Coll., China]

86-004876 Nelson, J. S. ON THE RELATIONSHIP OF THE NEW ZEALAND MARINE FISH *ANTIPODOCOTTUS GALATHEAE* WITH THE JAPANESE *STLENGIS MISAKIA* (SCORPAENIFORMES: COTTIDAE). *NZOI Rec.* 5(1):1-12. 1985. FR 31(4)
[Dep. Zool., Univ. Alberta, Edmonton, AB, Canada]

86-004877 Okiyama, M. MYCTOPHIFORMES: RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 254-259. 1984. FR 31(4)

IDENTIFICATION, KEYS, CLASSIFICATION (CONTINUED)

86-004878 Olney, J. E. LAMPRIFORMES: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 368-379. 1984. FR 31(4)

86-004879 Paxton, J. R.; E. H. Ahlstrom and H. G. Moser. MYCTOPHIDAE: RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 239-244. 1984. FR 31(4)

86-004880 Peden, A. E. REDEFINITION OF *ICELINUS FIMBRIATUS* AND *I. OCULATUS* (COTTIDAE, PISCES), AND THEIR CORRECTED GEOGRAPHIC DISTRIBUTIONS, WITH A NEW KEY TO THE GENUS. *Syesis* 17:67-80. 1984. FR 31(4)
[Aquatic Zool. Div., British Columbia Prov. Mus., Victoria, BC V8V 1X4, Canada]

86-004881 Pietsch, T. W. LOPHIIFORMES: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p.320-325. 1984. FR 31(4)

86-004882 Prince, J. D.; W. Ivanstoff and I. C. Potter. *ATHERINOSOMA WALLACEI*, A NEW SPECIES OF ESTUARINE AND INLAND WATER SILVERSIDE (TELEOSTEI: ATHERINIDAE) FROM THE SWAN-AVON AND MURRAY RIVERS, WESTERN AUSTRALIA. *Aust. Zool.* 21(2):63-74. 1982. FR 31(4)
[Sch. Environ. Life Sci., Murdoch Univ., Murdoch, WA 6150, Australia]

86-004883 Prince, J. D.; W. Ivantsoff and I. C. Potter. *ATHERINOSOMA WALLACEI*, A NEW SPECIES OF ESTUARINE AND INLAND WATER SILVERSIDE (TELOSTEI: ATHERINIDAE) FROM THE SWAN-AVON AND MURRAY RIVERS, WESTERN AUSTRALIA. *Aust. Zool.* 21(1):63-74. 1982. FR 31(4)
[Sch. Environ. Life Sci., Murdoch Univ., Murdoch, WA 6150, Australia]

86-004884 Retzer, M. E.; L. M. Page and D. L. Swofford. VARIATION AND SYSTEMATICS OF *ETHEOSTOMA WHIPPLEI*, THE REDFIN DARTER (PISCES: PERCIDAE). *Copeia* 1986(3):631-641. 1986. FR 31(4)
[Dep. Wildl. Fish. Sci., Tex. A&M Univ., College Station 77843-2258]

86-004885 Ribbink. A. J. IS THE SPECIES FLOCK CONCEPT TENABLE? *IN: A. A. Echelle and I. Kornfield, (eds.). Evolution of Fish Species Flocks. Univ. Me. Orono Press.* 1984. p.21-25. FR 31(4)

86-004886 Richards, W. J. GONORYNCHIFORMES: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 138-139. 1984. FR 31(4)

86-004887 Richards, W. J. and J. M. Leis. LABROIDEI: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 542-547. 1984. FR 31(4)

86-C04888 Rivas, L. R. SYSTEMATIC REVIEW OF THE PERCIFORM FISHES OF THE GENUS *CENTROPOMUS*. *Copeia* 1986(3):579-611. 1986. FR 31(4)

86-004889 Roberts, T. R. *DANIONELLA TRANSLUCIDA*, A NEW GENUS AND SPECIES OF CYPRINID FISH FROM BURMA, ONE OF THE SMALLEST LIVING VERTEBRATES.] *Environ. Biol. Fishes* 16(4):231-241. 1986. FR 31(4)
[Dep. Icthyol., Calif. Acad. Sci., San Francisco 94118]

IDENTIFICATION, KEYS, CLASSIFICATION (CONTINUED)

86-004890 Romand, R. A STUDY OF *APHYOSEMION SCHMITTI* (ROMAND, 1979) AND A SURVEY OF THE *APHYOSEMION* OF LIBERIA (PISCES, CYPRINODONTIDAE). *Zool. J. Linn. Soc.* 87(3):215-234. 1986. FR 31(4)
[Lab. Ecol., Dep. Biol. Anim., Fac. Sci., Univ. Dakar, Dakar-Fann, Senegal]

86-004891 Rosenblatt, R. H. BLENNIOIDEI: INTRODUCTION. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 537-552. 1984. FR 31(4)

86-004892 Sano, M.; M. Hayashi; H. Kishimoto; H. Manabe and K. Kobayashi. VALIDITY OF THE PLESOPID FISH *PLESIOPS NAKAHARAE* TANAKA, 1917, WITH A RECORD OF *PLESIOPS CEPHALOTAENIA* FROM JAPAN. *Fac. Mar. Sci. Technol. Tokai Univ. Collected Reprints* 15:37-50. 1986. In English with Japanese summ. FR 31(4)
[Dep. Fish., Fac. Agric., Univ. Tokyo, Yayoi, Bunkyo-ku, Tokyo 113, Japan]

86-004893 Shorrocks, B.(ed.)EVOLUTIONARY ECOLOGY: THE 23RD SYMPOSIUM OF THE BRITISH ECOLOCICAL SOCIETY, LEEDS, 1982. viii+418p. 1984. FR 31(4)
[Univ. Leeds, U.K.]

86-004894 Skelton, P. H. A NEW SPECIES OF *MASTACEMBELUS* (PISCES, MASTACEMBELIDAE) FROM THE UPPER ZAMBEZI RIVER, WITH A DISCUSSION OF THE TAXONOMY OF THE GENUS FROM THIS SYSTEM. *Ann. Cape Prov. Mus. Nat. Hist.* 11(6_:103-116. 1976. FR 31(4)

86-004895 Skurikhina, L. A.; P. Y. Tugarina and B. M. Mednikov. SYSTEMATICS OF THYMALLIDAE (SALMONIFORMES) BASED ON DNA X DNA HYBRIDIZATION. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):24-29. 1986. FR 31(4)
[Moscow State Univ., Moscow, USSR]

86-004896 Smith-Vaniz, W. F. CARANGIDAE: RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 522-530. 1984. FR 31(4)

86-004897 Smith, D. G. ELOPIFORMES, NOTACANTHIFORMES AND ANQUILLIFORMES: RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 94-102. 1984. FR 31(4)

86-004898 Smith, G. R. and T. N. Todd. EVOLUTION OF SPECIES FLOCKS OF FISHES IN NORTH TEMPERATE LAKES. *IN: A. A. Echelle and I. Kornfield, (eds.). Evolution of Fish Species Flocks. Univ. Me. Orono Press.* 1984. p.45-68. FR 31(4)

86-004899 Stehmann, M. [*RAJA KREFFTI* SPEC. NOV. (ELASMOBRANCHII, BATOIDEA, RAJIDAE); THE SECOND SPECIES OF DEEP WATER SKATES OF THE SUBGENUS *MALACORAJA* STEHMANN, 1970, FOUND IN THE NORTHERN EAST ATLANTIC.] *Arch. Fischereiwiss.* 28(2-3):77-93. 1977. In German with English summ. FR 31(4)

86-004900 Stevens, E. G. ; A. C. Matarese and W. Watson. AMMODYTOIDEI: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 574-575. 1984. FR 31(4)

86-004901 Stevens, E. G.; W. Watson and A. C. Matarese. NOTOTHENIOIDEA: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 561-564. 1984. FR 31(4)

IDENTIFICATION, KEYS, CLASSIFICATION (CONTINUED)

86-004902 Stewart, D. J. REVISION OF *PIMELODINA* AND DESCRIPTION OF A NEW GENUS AND SPECIES FROM THE PERUVIAN AMAZON (PISCES: PIMELODIDAE). *Copeia* 1986(3):653-672. 1986. FR 31(4)
[Cent. Limnol., Univ. Wis., Madison 53706]

86-004903 Strahan, R. *EPATRETUS LONGIPINNIS*, N. SP., A NEW HAGFISH (FAMILY EPTATRETIDAE) FROM SOUTH AUSTRALIA, WITH A KEY TO THE 5-7 GILLED EPTATRETIDAE. *Aust. Zool.* 18(3):137-148. 1975. FR 31(4)

86-004904 Svetovidov, A. N. REVIEW OF THE THREE-BEARDED ROCKLINGS OF THE GENUS *GAIDROPSARUS* RAFINESQUE, 1810 (GADIDAE) WITH DESCRIPTION OF A NEW SPECIES. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(1):114-135. 1986. FR 31(4)
[ZIN, Leningrad, USSR]

86-004905 Tighe, K. A. and M. J. Keene. ZEIFORMES: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 393-398. 1984. FR 31(4)

86-004906 Waldman, J. R. SYSTEMATICS OF *MORONE* (PISCES: MORONIDAE), WITH NOTES ON THE LOWER PERCOIDS. *Ph.D. dissertation, City Univ. N.Y.* 162p. 1986. From Diss. Abstr. Int. B Sci. Eng. 47(4):1454. 1986. FR 31(4)

86-004907 Washington, B. B.; W. N. Eschmeyer and K. M. Howe. SCORPAENIFORMES: RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 438-447. 1984. FR 31(4)

86-004908 Watson, W.; A. C. Matarese and E. G. Stevens. TRACHINOIDEA: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 554-561. 1984. FR 31(4)

86-004909 Watson, W.; E. G. Stevens and A. C. Matarese. SCHINDLERIOIDEI: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 552-554. 1984. FR 31(4)

86-004910 White, B. N.; R. J. Lavenberg and G. E. McGowen. ATHERINIFORMES: DEVELOPMENT AND RELATIONSHIPS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 355-362. 1984. FR 31(4)

86-004911 Whitley, G. P. MORE FISH GENERA SCRUTINIZED. *Aust. Zool.* 19(1):45-50. 1976. FR 31(4)

86-004912 Wiltz, J. W. DESCRIPTION OF THE MESOLARVA AND METALARVA ALABAMA HOG SUCKER (*HYPENTELIUM ETOWANUM*) FROM GEORGIA. *Ga. J. Sci.* 44(3): 81-89. 1986. FR 31(4)
[Ga. Power Co., Cent. Lab., 5131 Maner Rd., Smyrna, GA 30080]

86-004913 Witte, F. ECOLOGICAL DIFFERENTIATION IN LAKE VICTORIA HAPLOCHROMINES: COMPARISON OF CICHLID SPECIES FLOCKS IN AFRICAN LAKES. *IN: A. A. Echelle and I. Kornfield, (eds.). Evolution of Fish Species Flocks. Univ. Me. Orono Press.* 1984. p.155-167. FR 31(4)

PARASITES AND DISEASES-GENERAL

86-004914 Adamczyk, L. H. [CONTRIBUTION TO THE KNOWLEDGE OF HELMINTH PARASITES OF *COTTUS GOBIO.*] *Ann. Univ. Maria Curie-Sklodowska C Biol.* 34(21):279-288. 1979. From Helminthol. Abstr. Ser. A Anim. Human Helminthol. 55(9):347. 1986. In Polish with Russian summ. FR 31(4)

86-004915 Adamczyk, L. H. [HELMINTH FAUNA OF *NEMACHILUS BARBATULUS* FROM THE WIEPRZ RIVER BASIN.] *Ann. Univ. Maria Curie-Sklodowska C Biol.* 35(26):365-380. 1980. From Helminthol. Abstr. Ser. A Anim. Human Helminthol. 55(9):347. 1986. In Polish with Russian and English summ. FR 31(4)

86-004916 Albetova, L. M. and S. M. Michurin. [PARASITES AND DISEASES OF CARP IN THE WARM WATERS OF THE SURGUT HYDROELECTRIC STATION.] *Sb. Nauch. Tr. Gosudarstv. Nauchno-Issled. Inst. Ozern. Rech. Rybn. Khoz.* No. 226. p. 3-15. 1984. In Russian with English summ. From Protozool. Abstr. 10(7): 222-223. 1986. FR 31(4)

86-004917 Amlacher, E. [POCKET BOOK OF FISH DISEASES. THE PRINCIPLES OF FISH PATHOLOGY.] *VEB Gustav Fisher Verlog, Ed.* 5. 478p. 1986. In German. From Vet. Bull. 56(8):754. 1986. FR 31(4)
[Inst. Pathol., Friedrich-Schiller-Univ., Jena, East Germany]

86-004918 Bocharova, T. A.; G. I. Golovko and V. N. Nikulina. [CHANGES IN THE PARASITE FAUNA OF FISH IN THE RIVER TOM FROM 1946 TO 1978.] *Probl. Ekol.* 5:118-124. 1983. From Helminthol. Abstr. Ser. A Anim. Human Helminthol. 55(9):347. 1986. In Russian. FR 31(4)

86-004919 Booth, L. C. and J. V. Aliff. SOME METAZOAN PARASITES FROM NORTH GEORGIA FISHES. *Ga. J. Sci.* 36(3-4):147-152. 1978. FR 31(4)

86-004920 Guerrero, L. A. and E. M. Battod. PARASITIC LOAD OF CULTURED CARPS AND TILAPIA IN FRESHWATER PONDS FERTILIZED WITH INORGANIC AND ORGANIC FERTILIZERS. *Freshwater Aquacult. Cent. Cent. Luzon State Univ. Tech. Rep.* No. 18. p. 19-23. 1980. FR 31(4)

86-004921 Guerrero, L. A. and J. B. Paycana. SURVEY OF PARASITES AFFECTING FISHES IN THE FRESHWATER AQUACULTURE CENTER. *Freshwater Aquacult. Cent. Cent. Luzon State Univ. Tech. Rep.* No. 20. p. 42-45. 1981. FR 31(4)

86-004922 Guerrero, L. A. and P. M. Mouje. COMMON ECTOPARASITES OF *TILAPIA* SPP. AT FAC. *Freshwater Aquacult. Cent. Cent. Luzon State Univ. Tech. Rep.* No. 18. p. 15-18. 1980. FR 31(4)

86-004923 Hoffman, G. L. and A. J. Mitchell. SOME PARASITES AND DISEASES OF WARMWATER FISHES. *U.S. Fish Wildl. Serv. Fish Wildl. Leafl.* 6. 22p. 1986. FR 31(4)
[U.S. FWS, Fish Farm. Exp. Stn., P.O. Box 860, Stuttgart, AR 72160]

86-004924 Kennedy, C. R. INTERACTIONS OF FISH AND PARASITE POPULATIONS--TO PERPETUATE OR PIONEER. *Linnean Soc. Symp. Ser.* No. 11. p. 1-20. 1985. FR 31(4)
[Dep. Biol. Sci., Univ. Exeter, Exeter EX4 4PS, England]

PARASITES AND DISEASES-GENERAL (CONTINUED)

86-004925 Kennedy, C. R.; D. A. Laffoley; G. Bishop; P. Jones and M. Taylor. COMMUNITIES OF PARASITES OF FRESHWATER FISH OF JERSEY, CHANNEL ISLANDS. *J. Fish Biol.* 29(2):215-226. 1986. FR 31(4)
[Dep. Biol. Sci., The University, Exeter, Devon EX4 4PS, England]

86-004926 Krasil'shchikov, M. S. and T. V. Lyubina. [PARASITES AND DISEASES OF FISH IN POND AND LAKE FISH FARMS IN THE OMSK REGION.] *Sb. Nauch. Tr. Gosudarstv. Nauchno-Issled. Inst. Ozern. Rech. Rybn. Khoz.* No. 226. p. 25-31. 1984. In Russian with English summ. From Protozoal Abstr. 10(7):223. 1986. FR 31(4)

86-004927 Luk'yantseva, E. N. [HELMINTH LARVAE, CEREBRAL PARASITES OF FISH IN THE WATERBODIES OF THE SOUTHERN KRASNOYARSK TERRITORY.] *Probl. Ekol.* 5:125-127. 1983. From Helminthol. Abstr. Ser. A Anim. Human Helminthol. 55(9):347. 1986. In Russian. FR 31(4)

86-004928 McCain, B. B. and W. D. Gronlund. FISH DISEASES IN THE BERING SEA. *In: D. W. Hood and J. A. Calder. The Eastern Bering Sea Shelf: Oceanography and Resources.* p. 919-929. 1981. FR 31(4)

86-004929 Moustafa, M.; H. Kodama; T. Mikami and H. Izawa. TOXIC SUBSTANCE IN CULTURE FILTRATE OF *VIBRIO SP.* STRAIN N7802, A POOR PRODUCER OF HEMOLYSIN AND PROTEASE. *Fish Pathol.* 20(2-3):181-186. 1985. FR 31(4)
[Dep. Epizootiol., Fac. Vet. Med., Hokkaido Univ., Sapporo 060, Japan]

86-004930 Nie, D. and J. Pan. DISEASES OF GRASS CARP (*CTENOPHARYNGODON IDELLUS* VALENCIENNES, 1844) IN CHINA, A REVIEW FROM 1953 TO 1983. *Fish Pathol.* 20(2-3):323-330. 1985. FR 31(4)
[Inst. Hydrobiol., Acad., Sin., Wuham, Hubei, China]

86-004931 Osipov, A. S. [THE PARASITE FAUNA OF SIBERIAN CISCO IN DIFFERENT AREAS OF THE NORTHERN TYUMEN REGION.] *Sb. Nauch. Tr. Gosudarstv. Nauchno-Issled. Inst. Ozern. Rech. Rybn. Khoz.* No. 226. p. 32-35. 1984. In Russian with English summ. From Protozool. Abstr. 10(7):223. 1986. FR 31(4)

86-004932 Paperna, I. REVIEW OF DISEASES AFFECTING CULTURED *SPARUS AURATA* AND *DICENTRARCHUS LABRAX. IN: G. Barnabe and R. Billard, (eds.). L'aquaculture du Bar et des Sparides. I.N.R.A. Publ., Paris.* 1984. p. 465-482. In English with French, Italian and Spanish summ. FR 31(4)
[H. Steinitz Mar. Biol. Lab., Hebrew Univ. Jerusalum, P.O.B. 469, Elat, Israel]

86-004933 Parukhin, A. M. [MAIN RESULTS OF SOVIET ICHTHYOPARASITOLOGICAL INVESTIGATIONS IN THE INDIAN OCEAN BASIN.] *Ecol. Morya (Kiev)* No. 20. p. 3-12. 1985. In Russian with English summ. From Protozool. Abstr. 10(7): 222. 1986. FR 31(4)
[Inst. Biol. South. Seas, Sevastopol, USSR]

86-004934 Razmashkin, D. A.; V. Y. Shirshov and A. S. Osipov. [THE PARASITE FAUNAS OF *CARASSIUS AURATUS* AND *C. CARASSIUS* IN THE LAKES OF THE TYUMEN REGION.] *Sb. Nauch. Tr. Gosudarstv. Nauchno-Issled. Inst. Ozern. Rech. Rybn. Khoz.* No. 226. p. 36-49. 1984. In Russian with English summ. From Protozool. Abstr. 10(7):223. 1986. FR 31(4)

PARASITES AND DISEASES-GENERAL (CONTINUED)

86-004935 Razmashkin, D. A. [THE PARASITE FAUNA AND DISEASES OF *CTENOPHARYNGODON IDELLA* IN THE LAKE FISHERIES OF THE TYUMEN REGION.] *Sb. Nauch. Tr. Gosudarstv. Nauchno-Issled. Inst. Ozern. Rech. Rybn. Khoz.* No. 226. p. 50-55. 1984. In Russian with English summ. From Protozool. Abstr. 10(7):237. 1986. FR 31(4)

86-004936 Roberts, F. J. and C. J. Shepherd. HANDBOOK OF TROUT AND SALMON DISEASES. *Fishing News Books Ltd., Surrey, UK., Ed.* 2. 224p. 1986. From Vet. Bull. 56(8):755. 1986. FR 31(4)
[Inst. Aquacult., Univ. Stirling, UK]

86-004937 Shapovalova, G. I. [PARASITE FAUNA AND DISEASES OF FISH AT THE SARTLAN LAKE FISHERIES.] *Sb. Nauch. Tr. Gosudarstv. Nauchno-Issled. Inst. Ozern. Rech. Rybn. Khoz.* No. 226. p. 70-76. 1984. In Russian with English summ. From Protozool. Abstr. 10(7):223. 1986. FR 31(4)

86-004938 Singhal, R. N.; S. Jeet and R. W. Davies. CHEMOTHERAPY OF SIX ECTOPARASITIC DISEASES OF CULTURED FISH. *Aquaculture* 54(3):165-171. 1986. FR 31(4)
[Div. Ecol., Aquatic Ecol. Group, Dep. Biol., Univ. Calgary, Calgary AB T2N 1N4, Canada]

86-004939 Stoskope, M. K.; S. Kennedy-Stoskope; J. Arnold; J. Andrews and M. T. Perlstein. THERAPEUTIC AMINOGLYCOSIDE ANTIBIOTIC LEVELS IN BROWN SHARK, *CARCHARHINUS PLUMBEUS* (NARDO). *J. Fish Dis.* 9(4):303-311. 1986. FR 31(4)
[Natl. Aquarium, Pier 3, 501 E. Pratt St., Baltimore, MD 21202]

86-004940 Turovskij, A. PARASITOFAUNA OF FISH IN THE SOUTHERN GULF OF FINLAND. *Finn. Fish. Res.* No. 6. p. 106-111. 1985. FR 31(4)
[Tallinn Dep. Baltic Fish. Res. Inst., Apteegi 1-2, Tallinn, 200001 Estonian SSR, USSR]

86-004941 Yasutake, W. T.; J. D. McIntyre and A. R. Hemmingsen. PARASITE BURDENS IN EXPERIMENTAL FAMILIES OF COHO SALMON. *Trans. Am. Fish. Soc.* 115(4):636-640. 1986. FR 31(4)
[U.S. FWS, Natl. Fish. Res. Cent., Bldg. 204, Naval Stn., Seattle, WA 98115]

86-004942 Yoshimizu, M. and T. Kimura. A COAGGLUTINATION TEST WITH ANTIBODY-SENSITIZED STAPHYLOCOCCI FOR RAPID AND SIMPLE DIAGNOSIS OF BACTERIAL AND VIRAL DISEASES OF FISH. *Fish Pathol.* 20(2-3):243-261. 1985. FR 31(4)
[Lab. Microbiol., Fac. Fish., Hokkaido Univ., Hakodate, Hokkaido 041, Japan]

BACTERIAL DISEASES

86-004943 Akashi, A. and T. Aoki. CHARACTERIZATION OF TRANSFERABLE R PLASMIDS FROM *AEROMAONAS HYDROPHILA*. *Bull. Jpn. Soc. Sci. Fish.* 52(4): 649-655. 1986. FR 31(4)
[Dep. Fish., Fac. Agric., Miyazaki Univ., Miyazaki 889-21, Japan]

BACTERIAL DISEASES (CONTINUED)

86-004944 Amin, N. E.; I. S. Abdallah; T. Elallwy and S. M. Ahmed. MOTILE *AEROMONAS* SEPTICAEMIA AMONG *TILAPIA NILOTICA (SAROTHERODON NILOTICUS)* IN UPPER EGYPT. *Fish Pathol.* 20(2-3):93-97. 1985. FR 31(4)
[Dep. Microbiol. Parasito, Fac. Vet. Med., Zagazig Univ., Egypt]

86-004945 Aoki, T.; M. Sakai; T. Kitao and S. Takahashi. ELIMINATION OF CHALLENGE BACTERIA FROM THE BLOOD AND INTESTINES OF AYU *PLECOGLOSSUS ALTIVELIS* VACCINATED BY IMMERSION. *Bull. Jpn. Soc. Sci. Fish.* 52(6): 971-975. 1986. FR 31(4)
[Dep. Fish., Fac. Agric., Miyazaki Univ., Miyazaki 889-21, Japan]

86-004946 Aoki, T.; T. Kanazawa and T. Kitao. EPIDEMIOLOGICAL SURVEILLANCE OF DRUG RESISTANT *VIBRIO ANGUILLARUM* STRAINS. *Fish Pathol.* 20(2-3): 199-208. 1985. FR 31(4)
[Dep. Fish., Fac. Agric., Miyazaki Univ., Miyazaki 889-21, Japan]

86-004947 Arakawa, C. K.; J. L. Fryer and J. E. Sanders. SEROLOGY OF *MYCOBACTERIUM CHELONEI* ISOLATED FROM SALMONID FISH. *J. Fish Dis.* 9(?):269-271. 1986. FR 31(4)
[Dep. Microbiol., Oreg. State Univ., Corvallis 97331-3804]

86-004948 Asao, T.; S. Kozaki; K. Kato; Y. Kinoshita; K. Otsu; T. Uemura and G. Sakaguchi. PURIFICATION AND CHARACTERIZATION OF AN *AEROMONAS HYDROPHILA* HEMOLYSIN. *J. Clin. Microbiol.* 24(2):228-232. 1986. FR 31(4)
[Osaka Pref. Inst. Publ. Health, Higashinari-ku, Osaka 537, Japan]

86-004949 Banner, C. R.; J. J. Long; J. L. Fryer and J. S. Rohovec. OCCURRENCE OF SALMONID FISH INFECTED WITH *RENIBACTERIUM SALMONINARUM* IN THE PACIFIC OCEAN. *J. Fish Dis.* 9(3):273-275. 1986. FR 31(4)
[J. S. Rohovec: Dep. Microbiol., Oreg. State Univ., Corvallis 97331-3804]

86-004950 Bell, G. R. and G. S. Traxler. RESISTANCE OF THE PACIFIC LAMPREY, *LAMPETRA TRIDENTATA* (GAIRDNER), TO CHALLENGE BY *RENIBACTERIUM SALMONINARUM*, THE CAUSATIVE AGENT OF KIDNEY DISEASE IN SALMONIDS. *J. Fish Dis.* 9(3):277-279. 1986. FR 31(4)
[Pac. Biol. Stn., Nanaimo, BC V9R 5K6, Canada]

86-004951 Bragg, R. R. and M. M. Henton. ISOLATION OF *YERSINIA RUCKERI* FROM RAINBOW TROUT IN SOUTH AFRICA. *Bull. Eur. Assoc. Fish Pathol.* 6(1): 5-6. 1986. From Vet. Bull. 56(7):552. 1986. FR 31(4)
[Vet. Res. Inst., Onderstepoort 0110, South Africa]

86-004952 Bruno, D. W. and A. L. S. Munro. HAEMATOLOGICAL ASSESSMENT OF RAINBOW TROUT, *SALMO GAIRDNERI* RICHARDSON, AND ATLANTIC SALMON, *SALMO SALAR* L., INFECTED WITH *RENIBACTERIUM SALMONINARUM*. *J. Fish Dis.* 9(3):195-204. 1986. FR 31(4)
[Mar. Lab., P.O. Box 101, Victoria Rd., Aberdeen AB9 8DB, Scotland]

86-004953 Bruno, D. W. and A. L. S. Munro. OBSERVATIONS ON *RENIBACTERIUM SALMONINARUM* AND THE SALMONID EGG. *Dis. Aquat. Organisms* 1(2):83-87. 1986. FR 31(4)
[Dep. Agric. Fish. Scotland, Mar. Lab., Victorica Rd., Aberdeen AB9 8DB, Scotland]

BACTERIAL DISEASES (CONTINUED)

86-004954 Bruno, D. W. CHANGES IN SERUM PARAMETERS OF RAINBOW TROUT, *SALMO GAIRDNERI* RICHARDSON, AND ATLANTIC SALMON, *SALMO SALAR* L., INFECTED WITH *RENIBACTERIUM SALMONINARUM*. *J. Fish Dis.* 9(3):205-211. 1986. FR 31(4)
[Mar. Lab., P. O. Box 101, Victoria Rd., Aberdeen AB9 8DB, Scotland]

86-004955 Cipriano, R. C. and C. M. Heartwell III. SUSCEPTIBILITY OF SALMONIDS TO FURUNCULOSIS: DIFFERENCES BETWEEN SERUM AND MUCUS RESPONSES AGAINST *AEROMONAS SALMONICIDA*. *Trans. Am. Fish. Soc.* 115(1):83-88. 1986. FR 31(4)
[U.S. FWS, Box 700, Kearneysville, WV 25430]

86-004956 Cruz, J. M.; A. Saraiva; J. C. Eiras; R. Branco and J. C. Sousa. AN OUTBREAK OF *PLESIOMONAS SHIGELLOIDES* IN FARMED RAINBOW TROUT, *SALMO GAIRDNERI* RICHARDSON, IN PORTUGAL. *Bull. Eur. Assoc. Fish Pathol.* 6(1): 20-22. 1986. From Vet. Bull. 56(7):547. 1986. FR 31(4)
[Inst. Zool., Fac. Cienc., 4000 Porto, Portugal]

86-004957 Dalsgaard, I. and H. Paulsen. A TYPICAL *AEROMONAS SALMONICIDA* ISOLATED FROM DISEASED SAND-EELS, *AMMODYTES LANCEA* (CUVIER) AND *HYPEROPLUS LANCEOLATUS* (LESAUVEGE). *J. Fish Dis.* 9(4):361-364. 1986. FR 31(4)
[c/o Den Kgl. Vet.-og Landbohjskole, Bulowsvej 13, DK-1870 Frederiksburg C, Denmark]

86-004958 Daly, J. G.; B. Lindvik and R. M. W. Stevenson. SEROLOGICAL HETEROGENEITY OF RECENT ISOLATES OF *YERSINIA RUCKERI* FROM ONTARIO AND BRITISH COLUMBIA. *Dis. Aquat. Organisms* 1(2):151-153. 1986. FR 31(4)
[Dep. Microbiol., Univ. Guelph, Guelph, ON N1G 2W1, Canada]

86-004959 Duremdez, R. C. and G. D. Lio-Po. STUDIES ON THE CAUSATIVE ORGANISM OF *SAROTHERODON NILOTICUS* (LINNAEUS) FRY MORTALITIES--2. IDENTIFICATION AND CHARACTERIZATION OF THE PHYSIOLOGICAL PROPERITES OF *PSEUDOMONAS FLUORESCENS*. *Fish Pathol.* 20(2-3):115-123. 1985. FR 31(4)
[Aquacult. Dep., Southeast Asian Fish., Dev. Cent., Tigbauan, Iloilo, Philippines]

86-004960 Elliott, D. G. A STUDY OF THE PATHOGENESIS OF GOLDFISH ULCER DISEASE CAUSED BY ATYPICAL *AEROMONAS SALMONICIDA*. *Ph.D. dissertation, Univ. Wash.* 207p. 1985. From Diss. Abstr. Int. B Sci. Eng. 47(4):1345. 1986. FR 31(4)

86-004961 Frerichs, G. N. and M. S. Hendrie. BACTERIA ASSOCIATED WITH DISEASES OF FISH. *Soc. Appl. Bacteriol. Symp. Ser.* No. 21. p. 355-365. 1985. FR 31(4)
[Inst. Aquacult., Univ. Stirling, Stirling FK9 4LA, Scotland]

86-004962 Frerichs, G. N. and M. S. Hendrie. BACTERIA ASSOCIATED WITH DISEASES OF FISH. *IN: C. H. Collins and J. M. Orange, (eds.). Isolation and Identification of Microorganisms of Medical and Veterinary Importance. Academics Press, London.* 1985. p. 355-371. From Vet. Bull. 56(8):719. 1986. FR 31(4)
[Inst. Aquacult., Univ. Stirling, Stirling FK9 4LA, UK]

BACTERIAL DISEASES (CONTINUED)

86-004963 Fukuda, Y. and R. Kusuda. VACCINATION OF YELLOWTAIL AGAINST PSEUDOTUBERCULOSIS. *Fish Pathol.* 20(2-3):421-425. 1985. FR 31(4)
[Fish Dis. Control Cent., Oita Pref. Fish. Exp. Stn., Kamiura, Minami-Amabe, Oita 879-26, Japan]

86-004964 Galli, L. and R. Perez. AN OUTBREAK OF BACTERIAL HAEMORRHAGIC SEPTICAEMIA IN CAGE-CULTURED BLACK CATFISH (*RHAMDIA SAPO* VAL., 1840) IN URUGUAY. *Riv. Ital. Piscic. Ittiop.* 21(2):77-78. 1986. In English with Italian summ. FR 31(4)
[Dep. Acuicult., Inst. Nac. Pesca, Montevideo, Uruguay]

86-004965 Genovese, L.; E. Crisafi, R. La Ferla; T. L. Maugeri and R. Zaccone. [THE COMMENSAL MICROBIAL FLORA OF *PAGELLUS ACARNE* AND *SPONDYLIOSONIA CANTHARUS* IN INTENSIVE CULTURE.] *Riv. It. Piscic. Ittiop.* 20(3):112-116. 1985. In Italian with English summ. FR 31(4)
[Ist. Sper. Talassografico CNR, Spianata S. Rainieri, 98100 Messina, Italy]

86-004966 Getchell, R. G.; J. S. Rohovec and J. L. Fryer. COMPARISON OF *RENIBACTERIUM SALMONINARUM* ISOLATES BY ANTIGENIC ANALYSIS. *Fish Pathol* 20(2-3):149-159. 1985. FR 31(4)
[Dep. Microbiol., Oreg. State Univ., Corvallis 97331-3804]

86-004967 Holm, K. O.; E. Strom; K. Stensvag; J. Raa and T. Jorgensen. CHARACTERISTICS OF A *VIBRIO SP.* ASSOCIATED WITH THE "HITRA DISEASE" OF ATLANTIC SALMON IN NORWEGIAN FISH FARMS. *Fish Pathol.* 20(2-3):125-129. 1985. FR 31(4)
[Res. Found., Univ. Tromsø, P.O. Box 3063, Guleng, N-9001 Tromsø, Norway]

86-004968 Honda, A.; H. Kodama; M. Moustafa; F. Yamada; T. Mikami and H. Izawa. RESPONSE OF RAINBOW TROUT IMMUNIZED WITH FORMALIN-KILLED *VIBRIO ANGUILLARUM*: ACTIVITY OF PHAGOCYTOSIS OF FISH MACROPHAGES AND OPSONIZING EFFECT OF ANTIBODY. *Fish Pathol.* 20(2-3):395-402. 1985. FR 31(4)
[Dep. Epizootiol., Fac. Vet. Med., Hokkaido Univ., Sappopo 060, Japan]

86-004969 Honda, A.; H. Kodama; M. Moustafa; F. Yamada; T. Mikami and H. Izawa. PHAGOCYTIC ACTIVITY OF MACROPHAGES OF RAINBOW TROUT AGAINST *VIBRIO ANGUILLARUM* AND THE OPSONISING EFFECT OF ANTIBODY AND COMPLEMENT. *Res. Vet. Sci.* 40(3):328-332. 1986. FR 31(4)
[Dep. Epizootiol., Fac. Vet. Med., Hokkaido Univ., Sapporo 060, Japan]

86-004970 Hsu, T. C.; E. B. Shotts and W. D. Waltman. ACTION OF *AEROMONAS HYDROPHILA* COMPLEX ON CARBOHYDRATE SUBSTRATES. *Fish Pathol.* 20(1):23-35. 1985. In Japanese with English summ. FR 31(4)
[Dep. Med. Microbiol., Coll. Vet. Med., Univ. Ga., Athens 30602]

86-004971 Iida, T.; K. Furukawa; M. Sakai and H. Wakabayashi. NON-HEMOLYTIC *STREPTOCOCCUS* ISOLATED FROM THE BRAIN TO THE VERTEBRAL DEFORMED YELLOWTAIL. *Fish Pathol.* 21(1):33-38. 1986. In Japanese with English summ. FR 31(4)
[Dep. Fish., Fac. Agric., Univ. Tokyo, Yagoi 1-1-1, Bunkyo-ku, Tokyo 113, Japan]

BACTERIAL DISEASES (CONTINUED)

86-004972 Johnson, S. L. and L. W. Hinck. THE EFFECTS OF TEMPERATURE AND CROWDING ON THE PATHOGENICITY OF *EDWARDSIELLA ICTALURI* IN CHANNEL CATFISH (*ICTALURUS PUNCTATUS*). *Proc. Ark. Acad. Sci.* 39:55-58. 1985. FR 31(4)
[Dep. Biol. Sci., Ark. State Univ., State University 72467]

86-004973 Kaige, N.; T. Miyazaki and S. S. Kubota. [A HISTOPATHOLOGICAL STUDY OF EDWARSIELLOSIS IN TILAPIA--EXPERIMENTAL INFECTION.] *Fish Pathol.* 21(2):95-99. 1986. In Japanese with English summ. FR 31(4)
[Chusei Livestock Hygiene Serv. Cent., Takajaya, Tsu, Mie, Japan]

86-004974 Kawahara, E.; J. S. Nelson and R. Kusuda. FLUORESCENT ANTIBODY TECHNIQUE COMPARED TO STANDARD MEDIA CULTURE FOR DETECTION OF PATHOGENIC BACTERIA FOR YELLOWTAIL AND AMBERJACK. *Fish Pathol.* 21(1):39-45. 1986. In Japanese with English summ. FR 31(4)
[Fish Dis. Lab., Kochi Univ., B200 Monobe, Nankoku, Kochi Pref. 783, Japan]

86-004975 Kawai, K. and R. Kusuda. FIELD TESTING OF ORAL *VIBRIO ANGUILLARUM* BACTERIN IN POND-CULTURED AYU. *Fish Pathol.* 20(2-3): 413-419. 1985. In Japanese with English summ. FR 31(4)
[Fish Dis. Lab., Fac. Agric., Kochi Univ., Nankoku, Kochi 783, Japan]

86-004976 Kitao, T.; T. Yoshida; T. Aoki and M. Fukudome. CHARACTERIZATION OF AN ATYPICAL *AEROMONAS SALMONICIDA* STRAIN CAUSING EPIZOOTIC ULCER DISEASE IN CULTURED EEL. *Fish Pathol.* 20(2-3):107-114. 1985. FR 31(4)
[Dep. Fish., Fac. Agric., Miyazaki Univ., Miyazaki 889-21, Japan]

86-004977 Kodama, H.; A. Honda; M. Moustafa; T. Mikami and H. Izawa. DETECTION OF ANTIBODY IN RAINBOW TROUT AGAINST *AEROMONAS SALMONICIDA* BY ENZYME-LINKED IMMUNOSORBENT ASSAY. *Fish Pathol.* 20(2-3):237-242. 1985. FR 31(4)
[Dep. Epizootiol., Fac. Vet. Med., Hokkaido Univ., Sapporo 060, Japan]

86-004978 Kodama, H.; M. Moustafa, T. Mikami and H. Izawa. PARTIAL PURIFICATION OF EXTRACELLULAR SUBSTANCE OF *VIBRIO ANGUILLARUM* TOXIGENIC FOR RAINBOW TROUT AND MOUSE. *Fish Pathol.* 20(2-2):173-179. 1985. FR 31(4)
[Dep. Epizootiol., Fac. Vet. Med., Hokkaido Univ., Sapporo 060, Japan]

86-004979 Kusuda, R. and S. Onizaki. [THE IN VITRO EFFECT OF MACROLIDE ANTIBIOTICS AND LINCOMYCIN ON *STREPTOCOCCUS* SP., THE ETIOLOGICAL AGENT OF STREPTOCOCCAL INFECTION IN YELLOWTAIL, *SERIOLA QUINQUERADIATA*.] *Fish Pathol.* 20(4):453-457. 1985. In Japanese with English summ. FR 31(4)

86-004980 Lamers, C. H. J. and W. B. Van Muiswinkel. NATURAL AND ACQUIRED AGGLUTININS TO *AEROMONAS HYDROPHILA* IN CARP (*CYPRINUS CARPIO*). *Can. J. Fish. Aquatic Sci.* 43(3)619-624. 1986. In English with French summ. FR 31(4)
[Dep. Biochem., Univ. Nijmegen, P.O. Box 9101, 6500 HB Nijmegen, Netherlands]

86-004981 Levanon, N.; B. Motro; D. Levanon and G. Degani. THE DYNAMICS OF *AEROMONAS HYDROPHILA* IN THE WATER OF TANKS USED TO NURSE ELVERS OF THE EUROPEAN EEL *ANGUILLA ANGUILLA*. *Bamidgeh* 38(2):55-63. 1986. FR 31(4)
[Migal-Galilee Technol. Cent., Kiryat Shmona, 10200, Israel]

BACTERIAL DISEASES (CONTINUED)

86-004982 Lio-Po, G.; C. Pitogo and C. Marte. BACTERIA ASSOCIATED WITH INFECTION AT HORMONE-IMPLANTATION SITES AMONG MILKFISH, *CHANOS CHANOS* (FORSSKAL), ADULTS. *J. Fish Dis.* 9(4):337-343. 1986. FR 31(4)
[Aquacult. Dep., Southeast Asian Fish. Dev. Cent., Tigbauan, Iloilo, Philippines]

86-004983 Marin, C.; J. D. Alvarez and D. A. Conroy. HISTOLOGICAL CHANGES IN SLIVER MULLET (*MUGIL CUREMA*) EXPERIMENTALLY INFECTED WITH *AEROMONAS HYDROPHILA*. *Riv. Ital. Piscic. Ittiop.* 21(2):79-80. 1986. In English with Italian summ. FR 31(4)
[Fac. Cienc. Vet., Univ. Cent. Venezuela, Maracay, Estados Aragua, Venezuela]

86-004984 Michel, C. FAILURE OF ANTI-FURUNCULOSIS VACCINATION OF RAINBOW TROUT (*SALMO GAIRDNERI* RICHARDSON), USING EXTRA-CELLULAR PRODUCTS OF *AEROMONAS SALMONICIDA* AS AN IMMUNOGEN. *Fish Pathol.* 20(4):445-451. 1985. FR 31(4)
[Lab. Ichtyopathol., INRA, Groupe Lab. Pathol. Anim., 78850 Thiverval-Grignon, France]

86-004985 Miyazaki, T. and Y. Jo. A HISTOPATHOLOGICAL STUDY OF MOTILE AEROMONAD DISEASE IN AYU. *Fish Pathol.* 20(1):55-59. 1985. In Japanese with English summ. FR 31(4)
[Fac. Fish., Mie Univ., 2-80, Edobashi, Tsu, Mie, Japan]

86-004986 Miyazaki, T. and N. Kaige. COMPARATIVE HISTOPATHOLOGY OF EDWARDSIELLOSIS IN FISHES. *Fish Pathol.* 20(2-3):219-227. 1985. FR 31(4)
]Fac. Fish., Mie Univ., 2-80, Edobashi, Tsu, Mie, Japan]

86-004987 Muroga, K.; M. Iida; H. Matsumoto and T. Nakai. DETECTION OF *VIBRIO ANGUILLARUM* FROM WATERS. *Bull. Jpn. Soc. Sci. Fish.* 52(4): 641-647. 1986. FR 31(4)
[Fac. Appl. Biol. Sci., Hiroshima Univ., Fukuyama 720, Japan]

86-004988 Nagamura, Y. and H. Wakabayashi. CHANGES IN GLYCOGEN CONTENT OF NEUTROPHILS IN EEL, *ANGUILLA JAPONICA* BY BACTERIAL INFECTION. *Fish Pathol.* 20(2-3):389-394. 1985. FR 31(4)
[Med. Dep. Res. Lab. Ueno Fine Chem. Indus., Ltd., 1-127, Higashiarioka, Itami-shi, Hyogo, Japan]

86-004989 Nakai, T.; H. Hanada and K. Muroga. [FIRST RECORDS OF *PSEUDOMONAS ANGUILLISEPTICA* INFECTION IN CULTURED AYU, *PLECOGLOSSUS ALTIVELIS*.] *Fish Pathol.* 20(4):481-484. 1985. In Japanese with English summ. FR 31(4)
[Fac. Appl. Biol. Sci., Hiroshima Univ., Fukuyama 720, Japan]

86-004990 Nelson, J. S.; J. S. Rohovec and J. L. Fryer. LOCATION OF *VIBRIO ANGUILLARUM* IN TISSUES OF INFECTED RAINBOW TROUT (*SALMO GAIRDNERI*) USING THE FLOURESCENT ANTIBODY TECHNIQUE. *Fish Pathol.* 20(2-3):229-235. 1985. FR 31(4)
[Kochi Univ., Fac. Agric., B200 Monobe, Nankoku, Kochi 783, Japan]

86-004991 Newman, S. G. and J. J. Majnarich. IMMUNIZATION OF SALMONIDS AGAINST FURUNCULOSIS. *Fish Pathol.* 20(2-3):403-411. 1985. FR 31(4)
[BioMed Res. Lab., Inc., 1115 E. Pike St., Seattle, WA 98122]

BACTERIAL DISEASES (CONTINUED)

86-004992 Nieto, T. P.; M. J. R. Corcobado; A. E. Toranzo and J. L. Barja. RELATION OF WATER TEMPERATURE TO INFECTION OF *SALMO GAIRDNERI* WITH MOTILE *AEROMONAS*. *Fish Pathol.* 20(2-3):99-105. 1985. FR 31(4)
[Dep. Microbiol., Coll. Univ. Orense, Univ. Santiago de Compostela, Spain]

86-004993 Nomura, J. and T. Aoki. MORPHOLOGICAL ANAYLSIS OF LIPOPOLYSACCHARIDE FROM GRAM-NEGATIVE FISH PATHOGENIC BACTERIA. *Fish Pathol.* 20(2-3):193-197. 1985. FR 31(4)
[Dep. Fish., Fac. Agric., Miyazaki Univ., Miyazaki 889-21, Japan]

86-004994 Ohnishi, K. and J. Yasuhiko. PHYSIOLOGICAL CHARACTERISTICS AND PATHOGENICITY OF ß-HEMOLYTIC *STREPTOCOCCUS* ISOLATED FROM CULTURED AYU, *PLECOGLOSSUS ALTIVELIS*. *Fish Pathol.* 31(1):9-13. 1986. In Japanese with English summ. FR 31(4)
[Tokushima Pref. Fish. Exp. Stn., Hiwasa, Tokushima, 779-23, Japan]

86-004995 Ototake, M. and H. Wakabayashi. CHARACTERISTICS OF EXTRACELLULAR PRODUCTS OF *FLAVOBACTERIUM SP.*, A PATHOGEN OF BACTERIAL GILL DISEASE. *Fish Pathol.* 20(2-3):167-171. 1985. FR 31(4)
[Dep. Fish., Fac. Agric., Univ. Tokyo, Bunkyo-ke, Tokyo 113, Japan]

86-004996 Paterson, W. D.; S. P. Lall; D. Airdrie; P. Greer; G. Greenham and M. Poy. PREVENTION OF DISEASE IN SALMONIDS BY VACCINATION AND DIETARY MODIFICATION. *Fish Pathol.* 20(2-3):427-434. 1985. In Japanese with English summ. FR 31(4)
[Aqua Health Ltd., 1755 Steeles Ave. West, Willowdale, ON M2R 3T4, Canada]

86-004997 Pyle, S. W. and R. C. Cipriano. SPECIFICITY OF LIPOPOLYSACCHARIDE ANTIGENS OF *AEROMONAS SALMONICIDA*. *Microbios Lett.* 31:149-155. 1986. FR 31(4)
[U.S. FWS, Natl. Fish Health Res. Lab., Box 700, Kearnysville, WV 25430]

86-004998 Rubsamen, S. and J. Weis. [DETECTION OF ENTERIC REDMOUTH DISEASE AMONG RAINBOW TROUT IN SUDBADEN, GERMAN FEDERAL REPUBLIC.] *Tierarztl. Umsch.* 40(12):995-998. 1985. In German with English summ. From Vet. Bull. 56(7):599. 1986. FR 31(4)
[Tierhygien. Inst., Am Moosweiher 2, D-7800 Freiburg, West Germany]

86-004999 Sakai, D. K. and T. Kimura. RELATIONSHIP BETWEEN AGGLUTINATIVE PROPERTIES OF *AEROMONAS SALMONICIDA* STRAINS ISOLATED FROM FISH IN JAPAN AND THEIR RESISTANCE TO MECHANISMS OF HOST DEFENSE. *Fish Pathol.* 20(1): 9-21. 1985. In Japanese with English summ. FR 31(4)
[Hokkaido Fish Hatchery, Nakanoshima 2, Toyohira, Sapporo 062, Japan]

86-005000 Sakai, D. K. PHENOTYPIC VARIATION IN HAEMAGGLUTINATION CORRESPONDING WITH SPONTANEOUS AGGLUTINATION IN *AEROMONAS SALMONICIDA* STRAINS. *Fish Pathol.* 20(1):1-7. 1985. In Japanese with English summ. FR 31(4)
[Hokkaido Fish Hatchery, Nakanoshima 2, Toyohira, Sapporo 062, Japan]

86-005001 Sakai, M.; T. Ishii; S. Atsuta and M. Kobayashi. [DETECTION OF *AEROMONAS SALMONICIDA* ANTIGEN BY THE ENZYME IMMUNO ASSAY USED NITROCELLULOSE MEMBRANE.] *Fish Pathol.* 21(2):131-132. 1986. In Japanese with English summ. FR 31(4)

BACTERIAL DISEASES (CONTINUED)

86-005002 Salati, F. and R. Kusuda. CHEMICAL COMPOSITION OF THE LIPOPOLYSACCHARIDE FROM *EDWARDSIELLA TARDA*. *Fish Pathol.* 20(2-3):187-191. 1985. FR 31(4)
[Fish Dis. Lab., Fac. Agric., Kochi Univ., Nankoku, Kochi 783, Japan]

86-005003 Schlotfeldt, H.; K. H. Bohm; F. Pfortmuller and K. Pfortmuller. [ENTERIC REDMOUTH DISEASE OF TROUT AND OTHER FARMED FISH IN NW GERMANY. OCCURRENCE, THERAPY AND IMMUNIZATION.] *Tierarzytl. Umsch.* 40(12): 985-988, 993-995. 1985. In German with English summ. From Vet. Bull. 56(7): 599. 1986. FR 31(4)
[Fischseuchenbekampfungs., Eintrachtweg 17, D-3000 Hannover 1, West Germany]

86-005004 Schlotfeldt, H.; W. Neumann; H. Fuhrmann; K. Pfortmueller and H. Boehm. REMARKS ON AN INCREASING RESISTANCE OF FISHPATHOGENIC AND FACULTATIVE-FISHPATHOGENIC BACTERIA IN LOWER SAXONY (FRG). *Fish Pathol.* 20(2-3):85-91. 1985. In Japanese. FR 31(4)
[Fish Health Serv., Eintrachtweg 17, D-3000 Hannover 1, West Germany]

86-005005 Schultz, C. L.; B. C. Lidgerding; P. E. McAllister and F. M. Hetrick. PRODUCTION AND CHARACTERIZATION OF MONOCLONAL ANITBODY AGAINST INFECTIOUS HEMATOPOIETIC NECROSIS VIRUS. *Fish Pathol.* 20(2-3):339-341. 1985. FR 31(4)
[Dep. Microbiol., Univ. Md., College Park 20742]

86-005006 Shah, K. L. and B. C. Tyagi. AN EYE DISEASE IN SILVER CARP, *HYPOPHTHALMICHTHYS MOLITRIX*, HELD IN TROPICAL PONDS, ASSOCIATED WITH THE BACTERIUM *STAPHYLOCOCCUS AUREUS*. *Aquaculture* 55(1):1-4. 1986. FR 31(4)
[Fish Seed Farm, Saidpura (CSSRI), Karnal, Haryana 132001, India]

86-005007 Shotts, E. B.; T. C. Hsu and W. D. Waltman. EXTRACELLULAR PROTEOLYTIC ACTIVITY OF *AEROMONAS HYDROPHILA* COMPLEX. *Fish Pathol.* 20(1):37-44. 1985. In Japanese with English summ. FR 31(4)
[Dep. Med. Microbiol., Coll. Vet. Med., Univ. Ga., Athens 30602

86-005008 Tajima, K.; Y. Ezura and T. Kimura. STUDIES ON THE TAXONOMY OF CAUSATIVE ORGANISMS OF FISH VIBRIOSIS--MOLECULAR BIOLOGICAL CLASSIFICATION OF REPRESENTATIVE STRAINS. *Fish. Pathol.* 21(1):21-31. 1986. In Japanese with English summ. FR 31(4)
[Fac. Fish., Hokkaido Univ., Hakodate, Hokkaido 041, Japan]

86-005009 Tajima, K.; Y. Ezura and T. Kimura. STUDIES ON THE TAXONOMY AND SEROLOGY OF CAUSATIVE ORGANISMS OF FISH VIBRIOSIS. *Fish Pathol.* 20(2-3): 131-142. 1985. FR 31(4)
[Lab. Microbiol., Fac. Fish., Hokkaido Univ., Hakodate, Hokkaido 041, Japan]

86-005010 Tajima, K.; Y. Ezura and T. Kimura. [STUDIES ON THE TAXONOMY OF CAUSATIVE ORGANISMS OF FISH VIBRIOSIS--II. EXAMINATION OF THE REPRESENTATIVE STRAINS BY MEANS OF NUMERICAL TAXONOMY.] *Bull. Fac. Fish. Hokkaido Univ.* 36(4):231-248. 1985. In Japanese with English summ. FR 31(4)
[Lab. Microbiol., Fac. Fish., Hokkaido Univ., Hakodate 041, Japan]

BACTERIAL DISEASES (CONTINUED)

86-005011 Tajima, K.; Y. Ezura and T. Kimura. [STUDIES ON THE TAXONOMY OF CAUSATIVE ORGANISMS OF FISH VIBRIOSIS--1. INDENTIFICATION OF THE ISOLATES ACCORDING TO BERGEY'S MANUAL OF DETERMINATIVE BACTERIOLOGY 8TH ED. (1974).] *Bull Fac. Fish. Hokkaido Univ.* 36(4):216-230. 1985. In Japanese with English summ. FR 31(4)
[Lab. Microbiol., Fac. Fish., Hokkaido Univ., Hakodate 041, Japan]

86-005012 Takashima, N.; T. Aoki and T. Kitao. EPIDEMIOLOGICAL SURVEILLANCE OF DRUG-RESISTANT STRAINS OF *PASTEURELLA PISCICIDA*. *Fish Pathol.* 20(2-3):209-217. 1985. FR 31(4)
[Dep. Fish., Fac. Agric., Miyazaki Univ., Miyazaki 889-21, Japan]

86-005013 Tung, M.; S. Tsai; L. Ho; S. Huang and S. Chen. AN ACUTE SEPTICEMIC INFECTION OF *PASTEURELLA* ORGANISM IN POND-CULTURED FORMOSA SNAKE-HEAD FISH (*CHANNA MACULATA* LACEPEDE) IN TAIWAN. *Fish Pathol.* 20(2-3):143-148. 1985. FR 31(4)
[Dep. Vet. Med., Natl. Pingtung Inst. Agric., Pingtung, Taiwan, ROC]

86-005014 Wakabayashi, H. and T. Iwado. CHANGES IN GLYCOGEN, PYRUVATE AND LACTATE IN RAINBOW TROUT WITH BACTERIAL GILL DISEASE. *Fish Pathol.* 20(2-3):161-165. 1985. FR 31(4)
[Dep. Fish., Fac. Agric., Univ. Tokyo, Yayoi 1-1-1, Bunkyo-ku, Tokyo 113, Japan]

86-005015 Waltman, W. D.; E. B. Shotts and T. C. Hsu. BIOCHEMICAL AND ENZYMATIC CHARACTERIZATION OF *EDWARDSIELLA TARDA* FROM THE UNITED STATES AND TAIWAN. *Fish Pathol.* 21(1):1-8. 1986. In Japanese with English summ. FR 31(4)
[Dep. Med. Microbiol., Coll. Vet. Med., Univ. Ga., Athens 30602]

86-005016 Wilson, A. and M. T. Horne. DETECTION OF A-PROTEIN IN *AEROMONAS SALMONICIDA* AND SOME EFFECTS OF TEMPERATURE ON A-LAYER ASSEMBLY. *Aquaculture* 56(1):23-27. 1986. FR 31(4)
[Aquatic Biotechnol. Unit, Inst. Aquacult., University, Stirling, FK9 4LA, U.K.]

86-005017 Yoshimizu, M. and T. Kimura. [IN VITRO ANTIBACTERIAL ACTIVITY OF THE COMBINATION OF SULPHAMONOMETOXIN AND ORMETHOPRIM ON BACTERIAL FISH PATHOGENS.] *Bull. Fac. Fish. Hokkaido Univ.* 37(1):38-49. 1986. In Japanese with English summ. FR 31(4)
[Lab. Microbiol., Fac. Fish., Hokkaido Univ., Hakodate 041, Japan]

FUNGAL DISEASES

86-005018 Gajdusek, J. and V. Rubcov. MICROSTRUCTURE OF MOULTED CARP EGGS INFESTED WITH SAPROLEGNIA. *Folia Zool.* 34(4):349-355. 1985. FR 31(4)
[Inst. Vert. Zool., Czech. Acad. Sci., Brno, Czechoslovakia]

86-005019 Liu, K.; L. Mai and C. Chien. ELECTRON MICROSCOPIC STUDY OF THE REPRODUCTIVE STAGES OF THE GILL ROT PATHOGEN, *BRANCHIOMYCES* SP., OF FISH. *Fish Pathol.* 20(2-3):267-272. 1985. FR 31(4)
[Anat. Dep., Natl. Yang Ming Med. Coll., Taipei, ROC]

FUNGAL DISEASES (CONTINUED)

86-005020 Miyazaki, T. and Y. Jo. STUDIES ON ICHTHYOPHONUS DISEASE OF AYU. *Fish Pathol.* 20(1):45-48. 1985. In Japanese with English summ. FR 31(4)
[Fac. Fish., Mie Univ., 2-80, Edobashi, Tsu, Mie, Japan]

86-005021 Okamoto, N.; K. Nakase; H. Suzuki; Y. Nakai; K. Fujii and T. Sano. LIFE HISTORY AND MORPHOLOGY OF *ICHTHYOPHONUS HOFERI* IN VITRO. *Fish Pathol.* 20(2-3):273-285. 1985. FR 31(4)
[Lab. Fish Pathol., Dep. Aquacult., Tokyo Univ. Fish., 5-7, Konan 4, Minato-ku, Tokyo 108, Japan]

86-005022 Rahbari, S. and V. Razavilar. [SAPROLEGNIOSIS OF GOLDFISH *(CARASSIUS AURATUS)* IN IRAN.] *J. Vet. Fac. Univ. Tehran* 38(1):56-62. 1983. From Rev. Med. Vet. Mycol. 21(2):113. 1986. FR 31(4)

PROTOZOAN DISEASES

86-005023 Alvarez-Pellitero, M. P. and M. C. Gonzalez-Lanza. *GOUSSIA CARPELLI* (PROTOZOA, APICOMPLEXA) IN CYPRINID FISH OF THE DUERO BASIN (NW SPAIN). ASPECTS OF HOST-PARASITE RELATIONSHIPS. *J. Appl. Ichthyol.* 2(3):125-130. 1986. In English with French and German summ. FR 31(4)
[Lab. Parasitol. Est. Agric. exp. (C.S.I.C.), Leon, Spain]

86-005024 Alvarez-Pellitero, M. P. and M. C. Gonzalez-Lanza. *EIMERIA* SPP. FROM CYPRINID FISH OF THE DUERO BASIN (NORTH-WEST SPAIN). *J. Fish Dis.* 9(4):325-336. 1986. FR 31(4)
[Estacion Agric. Exp., Apt. 788, 24080 Leon, Spain]

86-005025 Amandi, A.; R. A. Holt and J. L. Fryer. OBSERVATIONS ON *MYXOBOLUS INSIDIOSUS* (MYXOZOA: MYXOSPOREA) A PARASITE OF SALMONID FISHES. *Fish Pathol.* 20(2-3):287-304. FR 31(4)
[Oreg. Dep. Fish Wildl., Dep. Microbiol., Oreg. State Univ., Corvallis 97331]

86-005026 Barbaro, A. and A. Francescon. [*AMYLOODINIUM* INFECTION IN CULTURED GILTHEAD.] *Oebalia* 11(2):745-752. 1985. In Italian with English summ. FR 31(4)
[Ist. Biol. Mare, CNR, Venezia, Italy]

86-005027 Clifton-Hadley, T. S.; R. H. Richards and D. Bucke. PROLIFERATIVE KIDNEY DISEASE (PKD) IN RAINBOW TROUT *SALMO GAIRDNERI*: FURTHER OBSERVATIONS ON THE EFFECTS OF WATER TEMPERATURE. *Aquaculture* 55(3):165-171. 1986. FR 31(4)
[Inst. Aquacult., Univ. Stirling, Stirling FK9 4LA, U.K.]

86-005028 Duhamel, G. E.; M. L. Kent; N. O. Dybdal and R. P. Hedrick. *HENNEGUYA EXILIS* KUDO ASSOCIATED WITH GRANULOMATOUS BRANCHITIS OF CHANNEL CATFISH *ICTALURUS PUNCTATUS* (RAFINESQUE). *Vet. Pathol.* 23(4):354-361. 1986. FR 31(4)
[Dep. Pathol., Sch. Vet. Med., Univ. Calif., Davis]

PROTOZOAN DISEASES (CONTINUED)

86-005029 Dykova, I.; J. Lom and M. Cirkovic. BRAIN MYXOBOLIASIS OF COMMON CARP (*CYPRINUS CARPIO*) DUE TO *MYXOBOLUS ENCEPHALICUS*. *Bull. Eur. Assoc. Fish Pathol.* 6(1):10-12. 1986. From Vet. Bull. 56(7):581. 1986. FR 31(4)
[Inst. Parasitol., Acad. Sci., Branisovska 31, 370 05 Ceske Budejovice, Czechoslovakia]

86-005030 Ewing, M. S.; M. E. Lynn and S. A. Ewing. CRITICAL PERIODS IN DEVELOPMENT OF *ICHTHYOPHTHIRIUS MULTIFILIIS* (CILIOPHORA) POPULATIONS. *J. Protozool.* 33(3):388-391. 1986. FR 31(4)
[Dep. Zool., Okla. State Univ., Stillwater 74078]

86-005031 Guerrero, L. A. and J. B. Paycana. IDENTIFICATION AND CULTURE OF PARASITIC PROTOZOANS OF *TILAPIA NILOTICA*. *Freshwater Aquacult. Cent. Cent. Luzon State Univ. Tech. Rep.* No. 20. p. 39-41. 1981. FR 31(4)

86-005032 Hemmingsen, A. R.; R. A. Holt; R. D. Ewing and J. D. McIntyre. SUSCEPTIBILITY OF PROGENY FROM CROSSSES AMONG THREE STOCKS OF COHO SALMON TO INFECTION BY *CERATOMYXA SHASTA*. *Trans. Am. Fish. Soc.* 115(3):492-495. 1986. FR 31(4)
[Oreg. Dep. Fish Wildl., 303 Extension Hall, Oreg. State Univ., Corvallis 97331]

86-005033 Kabata, Z.; D. J. Whitaker and J. W. Bagshaw. *KUDOA THYRSITIS* (GILCHRIST) (MYXOSPOREA: MULTIVALVULIDA) IN COHO SALMON, *ONCORHYNCHUS KISUTCH* (WALBAUM). *Can. J. Zool.* 64(4):1038-1040. 1986. In English with French summ. FR 31(4)
[Pac. Biol. Stn., Nanaimo, BC V9R 5K6, Canada]

86-005034 Kaige, N. and T. Miyazaki. A HISTOPATHOLOGICAL STUDY OF WHITE SPOT DISEASE IN JAPANESE FLOUNDER. *Fish Pathol.* 20(1):61-64. 1985. In Japanese with English summ. FR 31(4)
[Chusei Livestock Hygiene Ser. Cent., Takachayakomori, Tsu, Mie, Japan]

86-005035 Kent, M. L. and R. P. Hedrick. THE BIOLOGY AND ASSOCIATED PATHOLOGY OF *GOUSSIA CARPELLI* (LEGER AND STANKOVITCH) IN GOLDFISH *CARASSIUS ARUATUS* (LINNAEUS). *Fish Pathol.* 20(4):485-494. 1985. FR 31(4)
[R. P. Hedrick: Dep. Med., Sch. Vet. Med., Univ. Calif., Davis 95616]

86-005036 Kent, M. L. THE DEVELOPMENT OF THE PKX MYXOSPOREAN, THE CAUSATIVE AGENT OF PROLIFERATIVE KIDNEY DISEASE, IN RAINBOW TROUT *SALMO GAIRDNERI* RICHARDSON. *Ph.D. dissertation, Univ. Calif.* 96p. 1985. From Diss. Abstr. Int. B Sci. Eng. 47(2):447. 1986. FR 31(4)

86-005037 Markiw, M. E. SALMONID WHIRLING DISEASE: DYNAMICS OF EXPERIMANTAL PRODUCTION OF THE INFECTIVE STAGE--THE TRIACTINOMYXON SPORE. *Can. J. Fish. Aquatic Sci.* 43(3):521-526. 1986. In English with French summ. FR 31(4)
[U.S.FWS, Natl. Fish Health Res. Lab., Box 700, Kearneysville, WV 25430]

86-005038 Mohan, C. V. ICHTHYOPHTHIRIASIS IN AQUARIUM FISHES--A NOTE ON THE PATHOGENICITY AND LIFE CYCLE OF THE PARASITE. *Current Sci. India* 55(1):42-43. 1986. From Protozool. Abstr. 10(7):222. 1986. FR 31(4)
[Dep. Fish. Biol., Coll. Fish., Mangalore 575 002, India]

PROTOZOAN DISEASES (CONTINUED)

86-005039 Molnar, K. and E. Kovacs-Gayer. EXPERIMENTAL INDUCTION OF *SPHAEROSPORA RENICOLA* (MYXOSPOREA) INFECTION IN COMMON CARP (*CYPRINUS CARPIO*) BY TRANSMISSION OF SB-PROTOZOANS. *J. Appl. Ichthyol.* 2(2): 86-94. 1986. In English with French and German summ. FR 31(4)
[Vet. Med. Res. Inst., Hungarian Acad. Sci., 1581, Budapest, Hungary]

86-005040 Ovacharenko, N. A. THE FAUNA AND ECOLOGY OF MICROSPORIDIA IN FISH OF THE FAMILY GOBIIDAE OF THE LOWER DNIEPER, DNIEPER-BUG, AND BEREZANSKIY LAGOONS. *Hydrobiol. J. (Engl. Transl. Gidrobiol. Zh.)* 21(4):109-114. 1985. FR 31(4)
[Inst. Hydrobiol., UkrSSR Acad. Sci,. Kiev, USSR]

86-005041 Paperna, I. ICHTHYOPHONUS INFECTION IN GREY MULLETS FROM SOUTHERN AFRICA: HISTOPATHOLOGICAL AND ULTRASTRUCTURAL STUDY. *Dis. Aquat. Organisms.* 1(2):89-97. 1986. FR 31(4)
[Dep. Anim. Sci., Fac. Agric., Hebrew Univ. Jerusalem, Rehovot 76-100, Israel]

86-005042 Pellizzato, M. and W. J. Canzonier. [DESCRIPTION OF A PARASITE *KUDOA* (PROTOZOA : MYXOSPORIDA) IN FLOUNDER FROM LAGUNA VENETA.] *Oebalia* 11(3):807-808. 1985. In Italian with English summ. FR 31(4)
[Lab. Co.S.P.A.V.; Viale Stazione 5, 30015 Chioggia (VE), Italy]

86-005043 Ralphs, J. R. and R. A. Matthews. HEPATIC MICROSPORIDIOSIS OF JUVENILE GREY MULLET, *CHELON LABROSUS* (RISSO), DUE TO *MICROGEMMA HEPATICUS* GEN.NOV. SP.NOV. *J. Fish Dis.* 9(3):225-242. 1986. 31(4)
[Exp. Pathol. Unit, Inst. Orthopedics, Royal Natl. Orthopedic Hosp., Stanmore, Middlesex HA7 4LP, England]

86-005044 Tokumori, H.; Y. Murakami and K. Muroga. TWO COCCIDIAN PARASITES FOUND IN THE INTESTINE OF CULTURED CARP. *Fish Pathol.* 20(4):505-506. 1985. In Japanese. FR 31(4)

86-005045 Urawa, S. and O. Hiroi. TWO SPECIES OF *CHLOROMYXUM* (MYXOZOA: MYXOSPOREA) IN CHUM SALMON, *ONCORHYNCHUS KETA* (WALBAUM): TAXONOMY AND LIFE CYCLE. *Sci. Rep. Hokkaido Salmon Hatchery.* No.40. p.11-20. 1986. In Japanese with English summ. FR 31(4)

86-005046 Woo, P. T. K. and S. D. Wehnert. *CRYPTOBIA SALMOSITICA*: SUSCEPTIBILITY OF INFECTED RAINBOW TROUT, *SALMO GAIRDNERI*, TO ENVIRONMENTAL HYPOXIA. *J. Parasitol.* 72(3):392-396. 1986. FR 31(4)
[Dep. Zool., Univ. Guelph, Guelph, ON N1G 2W1, Canada]

VIRAL DISEASES

86-005047 Ahne, W. DIFFERENT BIOLOGICAL PROPERTIES OF FOUR RHABDOVIRUSES ISOLATED FROM CYPRINID FISHES. *J. Vet. Med.* 33(4):253-259. 1986. In German with English summ. FR 31(4)
[Inst. Zool. Hydrobiol., Kaulbachstr. 37, D-8000 Munchen 22, West Germany]

86-005048 Egusa, S. and M. Sorimachi. [A HISTOPATHOLOGICAL STUDY OF YELLOWTAIL ASCITES VIRUS (YAV) INFECTION OF FINGERLING YELLOWTAIL, *SERIOLA QUINQUERADIATA*.] *Fish Pathol.* 21(2):113-121. 1986. In Japanese with

VIRAL DISEASES (CONTINUED)

86-005048 CONTINUED English summ. FR 31(4)
[Fish. Dis. Cent., Harumi, Chou-ku, Tokyo, 104 Japan]

86-005049 Fujimaki, Y.; K. Hattori; K. Hatai and S. S. Kubota. [A LIGHT AND ELECTRON MICROSCOPIC STUDY ON YELLOWTAIL FINGERLINGS WITH ASCITES.] *Fish Pathol.* 21(2):105-111. 1986. In Japanese with English summ. FR 31(4)
[Dep. Fish. Dis., Nippon Vet. Zootech. Coll., 1-7-1 Kyonan Cho, Musashino, Tokyo 180, Japan]

86-005050 Ghittino, P. and C. Ghittino. [ADEOVIROSIS-LIKE DISEASE IN YOUNG WHITE STURGEON (*ACIPENSER TRANSMONTANUS*) FARMED IN ITALY.] *Riv. Ital. Piscic. Ittiop.* 20(4):137-139. 1985. In Italian with English summ. FR 31(4)
[Cent. Stud. Mal. Pesci., Ist. Zooprof., Via Bologna 148, 10154 Torino, Italy]

86-005051 Hasobe, M. and M. Saneyoshi. ON THE APPROACH TO THE VIRAL CHEMOTHERAPY AGAINST INFECTIOUS HEMATOPOIETIC NECROSIS VIRUS (IHNV) IN VITRO AND IN VIVO ON SALMONID FISHES. *Fish Pathol.* 20(2-3):343-351. 1985. FR 31(4)
[Div. Med. Chem., Fac. Pharmaceut. Sci., Hokkaido Univ., Sapporo 060, Japan]

86-005052 Hedrick, R. P.; W. D. Eaton; J. L. Fryer; Y. C. Hah; J. W. Park and S. W. Hong. BIOCHEMICAL AND SEROLOGICAL PROPERTIES OF BIRNAVIRUSES ISOLATED FROM FISH IN KOREA. *Fish Pathol.* 20(4):463-468. 1985. FR 31(4)
[Dep. Med., Sch. Vet. Med., Univ. Calif., Davis 95616]

86-005053 Hsu, Y.; H. M. Engelking and J. C. Leong. ANALYSIS OF THE QUANTITY AND SYNTHESIS OF THE VIRION PROTEINS OF INFECTIOUS HEMATOPOIETIC NECROSIS VIRUS. *Fish Pathol.* 20(2-3):331-338. 1985. FR 31(4)
[Inst. Zool., Acad. Sin., TAipei, Taiwan, ROC]

86-005054 Inoue, K.; S. Yasumoto; N. Yasunaga and I. Takami. [ISOLATION OF A VIRUS FROM CULTURED TIGER PUFFER, *TAKIFUGU RUBRIPES*, INFECTED WITH "KUCHIJIRO-SHO" AND ITS PATHOGENICITY.] *Fish Pathol.* 21(2):129-130. 1986. In Japanese. FR 31(4)

86-005055 Kanai, Y.; H. Fukuda and T. Sano. [MOLECULAR VARIANTS OF IHN VIRUS STRAINS IN JAPAN AND USA.] *Fish Pathol.* 20(1):71-72. 1985. In Japanese. FR 31(4)

86-005056 Langdon, J. S.; J. D. Humphrey; L. M. Williams; A. D. Hyatt and H. A. Westbury. FIRST VIRUS ISOLATION FROM AUSTRALIAN FISH: AN IRODOVIRUS-LIKE PATHOGEN FROM REDFIN PERCH, *PERCA FLUVIATILIS* L. *J. Fish Dis.* 9(3):263-268. 1986. FR 31(4)
[Aust. Fish Health Ref. Lab., P.O. Box 388, Benalla, Vic. 3672, Australia]

86-005057 Masoero, L.; C. Ercolini; M. Caggiano and A. Rosso. [PRELIMINARY OBSERVATIONS ON LYMPHOCYSTIS IN AN INTENSIVE ITALIAN MARICULTURE.] *Riv. Ital. Piscic. Ittiop.* 21(2):70-74. 1986. In Italian with English summ. FR 31(4)
[Zooprof. Sper. Piemonte Liguria, Via Bologna 148, 10154 Torina, Italy]

VIRAL DISEASES (CONTINUED)

86-005058 McAllister, P. E. and W. J. Owens. INFECTIOUS PANCREATIC NECROSIS VIRUS: PROTOCOL FOR A STANDARD CHALLENGE TO BROOK TROUT. *Trans. Am. Fish. Soc.* 115(3):466-470. 1986. FR 31(4)
[U.S. FWS, Box 700, Kearneysville, WV 25430]

86-005059 Meier, W. VIRAL HAEMORRHAGIC SEPTICAEMIA: SUSCEPTIBILITY OF PIKE (*ESOX LUCIUS* L.) AND ITS EPIZOOTIOLOGICAL ROLE. *J. Appl. Ichthyol.* 1(4):171-177. 1985. In German with French and English summ. FR 31(4)
[Untersuch. Fischkrankheit., Veterinarbakteriol. Inst. Univ. Bern, Langgasstr. 122, CH-3012 Bern, Switzerland]

86-005060 Meier, W.; W. Ahne and P. E. V. Jorgensen. FISH VIRUSES: VIRAL HAEMORRHAGIC SEPTICAEMIA IN WHITE FISH (*COREGONUS* SP.). *J. Appl. Ichthyol.* 2(4):181-186. 1986. In English with French and German summ. FR 31(4)
[Untersuchungsst. Fischkrankheit., Univ. Bern, Vet.-Pathol. Inst., Langgasstr. 122, CH-3012 Bern, Switzerland]

86-005061 Miyazaki, T. [A HISTOPATHOLOGICAL STUDY ON SERIOUS CASES WITH VIRAL ASCITES OF YELLOWTAIL FINGERLING OCCURRED IN MIE PREFECTURE.] *Fish Pathol.* 21(2):123-127. 1986. In Japanese with English summ. FR 31(4)
[Fac. Fish., Mie Univ., 2-80 Edobashi, Tsu, Mie 514, Japan]

86-005062 Nakauchi, R.; T. Miyazaki and T. Shiomitsu. [A HISTOPATHOLOGICAL STUDY ON "KUCHIJIRO-SHO" OF TIGER PUFFER.] *Fish Pathol.* 20(4):475-479. 1985. In Japanese with English summ. FR 31(4)
[Fac. Fish., Mie Univ., 2-80, Edobashi, Tsu, Mie, Japan]

86-005063 Nishimura, T.; M. Sano; F. Toyama; Y. Kanai and T. Sano. [COMPARISON BETWEEN EPC AND FHM CELL LINES ON IHN VIRUS SUSCEPTIBILITY AND EFFECT OF FETAL BOVINE SERUM CONCENTRATION ON IHNV-CPE APPEARANCE.] *Fish Pathol.* 20(1):69-70. 1985. In Japanese. FR 31(4)

86-005064 Nishimura, T.; H. Sasaki; M. Ushiyama; K. Inoue; Y. Suzuki; F. Ikeya; M. Tanaka; H. Suzuki; M. Kohara; M. Arai; N. Shima and T. Sano. A TRIAL OF VACCINATION AGAINST RAINBOW TROUT FRY WITH FORMALIN KILLED IHN VIRUS. *Fish Pathol.* 20(2-3):435-443. 1985. FR 31(4)
[Lab. Fish Pathol., Dep. Aquacult., Tokyo Univ. Fish., Konan, Minato-ku, Tokyo 108, Japan]

86-005065 Reno, P. W.; D. V. Serreze; S. K. Hellyer and B. L. Nicholson. HEMATOLOGICAL AND PHYSIOLOGICAL EFFECTS OF VIRAL ERYTHROCYTIC NECROSIS (VEN) IN ATLANTIC COD AND HERRING. *Fish Pathol.* 20(2-3):353-360. 1985. FR 31(4)
[Dep. Microbiol., Univ. Me., Orono 04469]

86-005066 Reno, P. W.; K. Kleftis; S. W. Sherburne and B. L. Nicholson. EXPERIMENTAL INFECTION AND PATHOGENESIS OF VIRAL ERYTHROCYTIC NECROSIS (VEN) IN ATLANTIC COD, *GADUS MORHUA*. *Can. J. Fish. Aquatic Sci.* 43(5):945-951. 1986. In English with French summ. FR 31(4)
[Dep. Microbiol., Univ. Me., Orono 04469]

86-005067 Samalecos, C. P. ANALYSIS OF THE STRUCTURE OF FISH LYMPHOCYSTIS DISEASE VIRIONS FROM SKIN TUMOURS OF PLEURONECTES. *Arch. Virol.* 91(1-2):1-10. 1986. FR 31(4)
[Inst. Biochem. Molekularbiol., Fachbereich Biol., Berlin, West Germany]

VIRAL DISEASES (CONTINUED)

86-005068 Sano, T.; H. Fukuda and M. Furukawa. *HERPESVIRUS CYPRINI*: BIOLOGICAL AND ONCOGENIC PROPERTIES. *Fish Pathol.* 20(2-3):381-388. 1985. FR 31(4)
[Lab. Fish-Pathol., Tokyo Univ. Fish., Tokyo, Japan]

86-005069 Sorimachi, M. and S. Egusa. [EXPERIMENTAL INFECTION OF YELLOWTAIL ASCITES VIRUS (YAV) TO YELLOWTAIL FINGERLINGS.] *Fish Pathol.* 21(2):133-134. 1986. In Japanese with English summ. FR 31(4)

86-005070 Wada, S.; K. Hatai; S. S. Kubota; K.Inoue and N. Yasunaga. [HISTOPATHOLOGICAL FINDINGS OF TIGER PUFFER *TAKIFUGU RUBRIPES* ARTIFICIAL INFECTED WITH "KUCHIJIRO-SHO".] *Fish Pathol.* 21(2):101-104. 1986. In Japanese with English summ. FR 31(4)
[Dep. Fish. Dis., Nippon Vet. Zootech. Coll., 1-7-1 Kyonan Cho, Musashino, Tokyo 180, Japan]

86-005071 Wada, S.; Y. Fujimaki; K. Hatai; S. S. Kubota and M. Isoda. [HISTOPATHOLOGICAL FINDINGS OF CULTURED TIGER PUFFER *TAKIFUGU RUBRIPES* NATURALLY INFECTED WITH "KUCHIJIRO-SHO".] *Fish Pathol.* 20(4):495-500. 1985. In Japanese with English summ. FR 31(4)
[Dep. Fish. Dis., Nippon Vet. Zootech. Coll., 1-7-1 Kyonan Cho, Musashino, Tokyo 180, Japan]

86-005072 Winton, J. R.; C. N. Lannan; D. P. Ransom and J. L. Fryer. ISOLATION OF A NEW VIRUS FROM CHINOOK SALMON (*ONCORHYNCHUS TSHAWYTSCHA*) IN OREGON U.S.A. *Fish Pathol.* 20(2-3):373-380. 1985. FR 31(4)
[Dep. Microbiol., Oreg. State Univ., Corvallis 97331]

86-005073 Yamamoto, T.; R. K. Kelly and O. Nielsen. MORPHOLOGICAL DIFFERENTIATION OF VIRUS-ASSOCIATED SKIN TUMORS OF WALLEYE (*STIZOSTEDION VITREUM VITREUM*). *Fish Pathol.* 20(2-3):361-372. 1985. FR 31(4)
[Dep. Microbiol., Univ. Alberta, Edmonton AB T6G 2E9, Canada]

86-005074 Yoshimizu, M.; H. Takizawa and T. Kimura. U. V. SUSCEPTIBILITY OF SOME FISH PATHOGENIC VIRUSES. *Fish Pathol.* 21(1):47-52. 1986. In Japanese with English summ. FR 31(4)
[Lab. Microbiol., Fac. Fish., Hokkaido Univ., Hakodate, Hokkaido 041, Japan]

OTHER DISEASES AND PARASITES

86-005075 Adjei, E. L.; A. Barnes and R. J. G. Lester. A METHOD FOR ESTIMATING POSSIBLE PARASITE-RELATED HOST MORTALITY, ILLUSTRATED USING DATA FROM *CALLITETRARHYNCHUS GRACILIS* (CESTODA: TRYPANORHYNCHA) IN LIZARDFISH (*SAURIDA* SPP.). *Parasitology* 92(1):227-243. 1986. FR 31(4)
[Dep. Zool., Univ. Ghana, Box 67, Legon, Ghana]

86-005076 Amin, O. M. and J. C. Vignieri. ACANTHOCEPHALA FROM LAKE FISHES IN WISCONSIN: THE GIANT NUCLEI PATTERN IN *NEOECHINORHYNCHUS ROBERTBAUERI* AND *N. PROLIXOIDES* (NEOECHINORHYNCHIDAE). *Proc Helminthol. Soc. Wash.* 53(2):184-193. 1986. FR 31(4)
[Dep. Biol. Sci., Univ. Wis.-Parkside, Box No. 2000, Kenosha 53141]

OTHER DISEASES AND PARASITES (CONTINUED)

86-005077 Berrie, A. D. and B. J. Boize. THE FISH HOSTS OF *UNIO* GLOCHIDIA IN THE RIVER THAMES. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2712-2716. 1983. FR 31(4)

86-005078 Berube, M. and M. A. Curtis. TRANSMISSION OF *DIPHYLLOBOTHRIUM DITREMUM* TO ARCTIC CHAR (*SALVELINUS ALPINUS*) IN TWO SUBARCTIC QUEBEC LAKES. *Can. J. Fish. Aquatic Sci.* 43(8):1626-1634. 1986. In English with French summ. FR 31(4)
[Inst. Parasitol., Macdonald Coll., McGill Univ., 21, 111 Lakeshore Rd., Ste-Anne-de-Bellevue, PQ H9X 1C0, Canada]

86-005079 Beverley-Burton, M.; L. Bruce-Allen; D. Murith and A. O. Dechtiar. ANCYROCEPHALIDS (MONOGENEA) FROM *MORONE* SPP. (PERCICHTHYIDAE) IN NORTH AMERICA, INCLUDING REDESCRIPTIONS OF *ONCHOCLEIDUS MIMUS* MUELLER, 1936 AND *O. INTERRUPTUS* MIZELLE, 1936. *Can J. Zool.* 64(4):1001-1009. 1986. In English with French summ. FR 31(4)
[Dep. Zool., Coll. Biol. Sci., Univ. Guelph, Guelph, ON N1G 2W1, Canada]

86-005080 Bignami, S.; A. Gnes and P. Ghittino. [A SERIOUS MORTALITY IN FARMED SEABASS CHARACTERIZED BY THE DETACHMENT OF BRANCHIOSTEGAL MEMBRANE.] *Riv. Ital. Piscic. Ittiop.* 20(4):148-149. 1985. In Italian with English summ. FR 31(4)
[Cent. Rech. Ittiol., SS. Romea km. 21,250, 44022 Comacchio (FE), Italy]

86-005081 Bilqees, F. M. and A. Khan. *PARAECHINORHYNCHUS KALRIAI* N.G., N.SP. (NEOECHINORHYNCHIDAE: NEOECHINORHYNCHINAE) FROM *LABEO ROHITA* (HAM). *Pak. J. Agric. Sci.* 20(3-4):116-120. 1983. From Helminthol. Abstr. Ser. A Anim. Human Helminthol. 55(8):308. 1986. FR 31(4)
[Parasitol. Sect., Dep. Zool., Univ. Karachi, Karachi, Pakistan]

86-005082 Bloch, B.; S. Mellergaard and E. Nielsen. ADENOVIRUS-LIKE PARTICLES ASSOCIATED WITH EPTITHELIAL HYPERPLASIAS IN DAB, *LIMANDA LIMANDA* (L.). *J. Fish Dis.* 9(3):281-285. 1986. FR 31(4)
[S. Mellergaard: Royal Vet. Agric. Univ., Bulowsvej 13, DK-1870 Copenhagen V, Denmark]

86-005083 Bray, R. A. SOME HELMINTH PARASITES OF MARINE FISHES OF SOUTH AFRICA: *SANTERIA RUBALO* GEN. ET SP. NOV. (DIGENEA: CRYPTOGONIMIDAE). *J. Nat. Hist.* 20(4):817-823. 1986. FR 31(4)
[Dep. Zool., Br. Mus. (Nat. Hist.), Cromwell Rd., London SW7 5BD, England]

86-005084 Brown, A. F. EVIDENCE FOR DENSITY-DEPENDENT ESTABLISHMENT AND SURVIVAL OF *POMPHORHYNCHUS LAEVIS* (MULLER, 1776) (ACANTHOCEPHALA) IN LABORATORY-INFECTED *SALMO GAIRDNERI* RICHARDSON AND ITS BEARING ON WILD POPULATIONS IN *LEUCISCUS CEPHALUS* (L.). *J. Fish Biol.* 28(6):659-669. 1986. FR 31(4)
[Dep. Zool., Univ. Liverpool, P.O. Box 147, Liverpool L69 3BX, U.K.]

86-005085 Byrnes, T. TWO NEW *ARGULUS* SPECIES (BRANCHIURA: ARGULIDAE) FOUND ON AUSTRALIAN BREAM (*ACANTHOPAGRUS* SPP.). *Aust. Zool.* 21(6-7): 579-586. 1985. FR 31(4)
[Dep. Zool., Univ. New England, Armidale, NSW 2351, Australia]

86-005086 Cable, R. M. and L. E. Peters. THE CERCARIA OF *ALLOCREADIUM ICTALURI* PEARSE (DIGENEA: ALLOCREADIDAE). *J. Parasitol.* 72(3):369-371. 1986. FR 31(4)
[Dep. Biol. Sci., Purdue Univ., West Lafayette, IN 47907]

OTHER DISEASES AND PARASITES (CONTINUED)

86-005087 Chandra, K. J. OCCURRENCE OF ONCOBOTHRIID LARVAE IN MARINE FISHES OF BAY OF BENGAL. *Indian J. Parasitol.* 9(2):217-220. 1985. From Helminthol. Abstr. Ser. A Anim. Human Helminthol. 55(8):304. 1986. FR 31(4)
[Dep. Fish. Limnol., Bangladesh Agric. Univ., Mymensough, Bangladesh]

86-005088 Chandra, K. J. RECORDS OF SOME TRYPANORHYNCH PLEROCERCOIDS IN TELEOSTS OF ANDHRA COAST. *Indian J. Parasitol.* 9(2):135-137. 1985. From Helminthol. Abstr. Ser. A Anim. Human Helminthol. 55(8):304. 1986. FR 31(4)
[Dep. Fish. Limnol., Bangladesh Agric. Univ., Mymensough, Bangladesh]

86-005089 Cone, D. K.; A. O. Dechtiar. ON *GYRODACTYLUS KATHARINERI* MALMBERG, 1964, *G. LOTAE* Gussev, 1953, AND *G. LUCII* KULAKOVSKAYA, 1952 FROM HOST FISHES IN NORTH AMERICA. *Can. J. Zool.* 64(3):637-639. 1986. FR 31(4)
[Dep. Biol., St. Mary's Univ., Halifax, NS B3H 3C3, Canada]

86-005090 Conroy, D. A.; M. C. Gonzalez and M. D. Gonzalez. PRELIMINARY STUDIES ON AN EYE FLUKE PROBLEM AFFECTING TILAPIAS AND NATIVE CICHLIDS FROM LAKE VALENCIA, VENEZUELA. *Riv. It. Piscic. Ittiop.* 20(3):100,103-108,!!!. 1985. In English with Italian summ. FR 31(4)
[Sec. Ictiopatol., Fac. Ciens. Vet., Univ. Cent. Venzuela, Maracay, Venezuela]

86-005091 Conroy, G. and D. A. Conroy. GYRODACTYLOSIS IN SILVER MULLET (*MUGIL CUREMA* VAL.) FROM VENEZUELAN COASTAL WATERS, AND A DESCRIPTION OF *GYRODACTYLUS CUREMAE* N. SP. *Riv. Ital. Piscic. Ittiop.* 20(4):140,143-147. 1985. In English with Italian summ. FR 31(4)
[Sec. Ictiopatol., Fac. Cienc. Vet., Univ. Cent. Venezuela, Apt. Correos N. 4563, Maracay 2101, Edo. Aragua, Venezuela]

86-005092 Conroy, G. and K. Perez. A REPORT ON THE EXPERIMENTAL INFECTION OF A SMOOTH-HEADED CAPUCHIN MONKEY (*CEBUS APELLA*) WITH METACERCARIAE OF *PHAGICOLA LONGA* OBTAINED FROM SILVER MULLET (*MUGIL CUREMA*) VISCERA. *Riv. Ital. Piscic. Ittiop.* 20(4):154-155. In English with Italian summ. FR 31(4)
[Sec. Ictiopatol., Fac. Cienc. Ver., Univ. Cent. Benzuela, Apt. Correo N. 4563, Maracay 2101, Edo. Aragua, Venezuela]

86-005093 Cormier, S. M. FINE STRUCTURE OF HEPATOCYTES AND HEPATOCELLULAR CARCINOMA OF THE ATLANTIC TOMCOD, *MICROGADUS TOMCOD* (WALBAUM). *J. Fish Dis.* 9(3):179-194. 1986. FR 31(4)
[Dep. Biol., Univ. Louisville, Louisville, KY 40292]

86-005094 Daoust, P. Y. and H. W. Ferguson. POTENTIAL FOR RECOVERY IN NODULAR GILL DISEASE OF RAINBOW TROUT, *SALMO GAIRDNERI* RICHARDSON. *J. Fish Dis.* 9(4):313-318. 1986. FR 31(4)
[Vet. Diagnostic Lab., O. S. Longman Bldg., P.O. Box 8070, Edmonton, AB T6H 4P2, Canada]

86-005095 De Buron, I.; F. Renaud and L. Euzet. SPECIATION AND SPECIFICITY OF ACANTHOCEPHALANS. GENETIC AND MORPHOLOGICAL STUDIES OF *ACANTHOCEPHALOIDES GENETICUS* SP. NOV. PARASITIZING *ARNOGLOSSUS LATERNA* (BOTHIDAE) FROM THE MEDITERRANEAN LITTORAL (SETE-FRANCE). *Parasitology* 92(1):165-171. 1986. FR 31(4)
[Lab Parasitol. Comp., U.S.T.L. Place Eugene Bataillon, 34060 Montpellier Cedex, France]

OTHER DISEASES AND PARASITES (CONTINUED)

86-005096 Donoghue, S. A NOTE ON THE PRESENCE OF BACTERIA ON THE SURFACE OF THE PARASITIC COPEPOD *THERSITINA GASTEROSTEI* PAGENSTECHER. *J. Fish. Dis.* 9(4):349-351. 1986. FR 31(4)
[Life Sci. Dep., Goldsmith's Coll., Rachel McMillan Bldg., Creek Rd., London SE8 3BU, England]

86-005097 Dyer, W. G.; E. H. Williams, Jr. and L. B. Williams. SOME TREMATODES OF MARINE FISHES OF SOUTHWESTERN AND NORTHWESTERN PUERTO RICO. *Trans. Ill. State Acad. Sci.* 79(1-2):141-143. 1986. FR 31(4)
[Dep. Zool., South Ill. Univ., Carbondale 62901]

86-005098 Elston, R. A.; L. Harrell and M. T. Wilkinson. ISOLATION AND IN VITRO CHARACTERISTICS OF CHINOOK SALMON (*ONCORHYNCHUS TSHAWYTSCHA*) ROSETTE AGENT. *Aquaculture* 56(1):1-21. 1986. FR 31(4)
[Cent. Mar. Dis. Control, Battelle Mar. Res. Lab., 439 W. Sequim Bay Rd., Sequim, WA 98382]

86-005099 Fain, A.;L. Lambrechts and C. Belpaire. [ACARIASIS, A NEW PARASITIC DISEASE OF AQUARIUM FISH.] *Riv. It. Piscic. Ittiop.* 21(1):33. 1986. In Italian with English summ. FR 31(4)
[Inst. Royal Sci. Nat. Belgique, Rue Vautier 29, B-1040 Brussels, Belgium]

86-005100 Ghittino, P.; S. Dalforno; S. Bignami and L. Corradini. [A CASE REPORT OF A NEPHROBLASTOMA IN LAGOON FARMED SILVER EEL.] *Riv. Ital. Piscic. Ittiop.* 20(4):150,153. 1985. In Italian with English summ. FR 31(4)
[Inst. Zooprof. Sper. Piemonte Liguria, Torino, Italy]

86-005101 Harrell, L. W.; R. A. Elston; T. M. Scott and M. T. Wilkinson. A SIGNIFICANT NEW SYSTEMIC DISEASE OF NET-PEN REARED CHINOOK SALMON *(ONCORHYNCHUS TSHAWYTSCHA)* BROOD STOCK. *Aquaculture* 55(4):249-262. 1986. FR 31(4)
[NMFS, 2725 Montlake Blvd. East, Seattle, WA 98112]

86-005102 Hatai, K.; S. Wada; S. S. Kubota; N. Matsumoto and N. Ueki. [MORTALITY OF CULTURED FINGERLING JAPANESE FLOUNDER, *PARALICHTHYS OLIVACEUS DUE TO THROMBUS FORMED IN ATRIUM.*] *Fish Pathol.* 20(4):503-504. 1984. In Japanese. FR 31(4)

86-005103 Hauck, A. K. GAS BUBBLE DISEASE DUE TO HELICOPTER TRANSPORT OF YOUNG PINK SALMON. *Trans. Am. Fish. Soc.* 115(4):630-635. 1986. FR 31(4)
[Bur. Fish., Idaho Dep. Fish Game, 3806 S. Powerline Rd., Nampa 83651]

86-005104 Haynes, C. M. and R. T. Muth. LORDOSIS IN GILA, YAMPA RIVER, COLORADO. *Proc. Desert Fishes Counc.* 13-15:83-90. 1985. FR 31(4)

86-005105 Hoffman, R. W.; J. Meder; M. Klein; K. Osterkorn and R. D. Negele. STUDIES ON LESIONS CAUSED BY PLEROCERCOIDS OF *TRIAENOPHORUS NODULOSUS* IN SOME FISH OF AN ALPINE LAKE, THE KONIGSSEE. *J. Fish Biol.* 28(6):701-712. 1986. FR 31(4)
[Inst. Zool. Hydrobiol., Kaulbachstr. 37, D-8000 Munchen 22, West Germany]

OTHER DISEASES AND PARASITES (CONTINUED)

86-005106 Hogans, W. E. and J. Brattey. *OMMATOKOITA* SP. (COPEPODA: LERNAEOPODIDAE) PARASITIC ON A DEMERSAL SHARK, *ETMOPTERUS PRINCEPS*, FROM THE NORTHWEST ATLANTIC OCEAN. *Can. J. Zool.* 64(4):833-835. 1986. In English with French summ. FR 31(4)
[Atl. Ref. Cent., Huntsman Mar. Lab., St. Andrews, NB EOG 2X0, Canada]

86-005107 Holliman, A. and P. Southgate. SERIOUS LOSSES IN RAINBOW TROUT (*SALMO GAIRDNERI*) ASSOCIATED WITH HEPATOCELLULAR CEROIDOSIS. *Vet. Rec.* 119(8):179. 1986. FR 31(4)
[Vet. Invest. Cent., Merrythought, Calthwaite, Penrith, Cumbria, England]

86-005108 Jensen, J. O. T.; J. Schnute and D. F. Alderdice. ASSESSING JUVENILE SALMONID RESPONSE TO GAS SUPERSATURATION USING A GENERAL MULTIVARIATE DOSE-RESPONSE MODEL. *Can. J. Fish. Aquatic Sci.* 43(9): 1694-1709. 1986. In English with French summ. FR 31(4)
[Pac. Biol. Stn., Nanaimo, BC V9R 5K6, Canada]

86-005109 Jiwei, S. and T. Yongyong. TWO NEW SPECIES OF DIGENETIC TREMATODES FROM *POMADASYS HASTA* (BLOCH). *Oceanol. Limnol. Sin.* 16(6): 507-510. 1985. In Chinese with English summ. FR 31(4)
[Inst. Oceanol., Acad. Sin., Qingdao, China]

86-005110 Johnsen, B. O. and A. J. Jensen. INFESTATIONS OF ATLANTIC SALMON, *SALMO SALAR*, BY *GYRODACTYLUS SALARIS* IN NORWEGIAN RIVERS. *J. Fish Biol.* 29(2):233-241. 1986. FR 31(4)
[Dir. Nat. Manage., Tungasletta 2, N-7000 Trondheim, Norway]

86-005111 Kearn, G. C. ROLE OF CHEMICAL SUBSTANCES FROM FISH HOSTS IN HATCHING AND HOST-FINDING IN MONOGENEANS. *J. Chem. Ecol.* 12(8):1651-1658. 1986. FR 31(4)
[Sch. Biol. Sci., Univ. East Anglia, Norwich NR4 7TJ, U.K.]

86-005112 Kelle, W. [INJURIES OF UNDERSIZED FLATFISH, CAUSED BY THE SHRIMP FISHERY.] *Arch. Fischereiwiss.* 28(2-3):157-171. 1977. In German with English summ. FR 31(4)

86-005113 Kent M. L. and A. C. Olson, Jr. INTERRELATIONSHIPS OF A PARASTIC TURBELLARIAN, *(HARAVORTEX* SP.) (GRAFFILLIDAE, RHABDOCOELA) AND ITS MARINE FISH HOSTS. *Fish Pathol.* 21(2):65-72. 1986. FR 31(4)
[Battelle Mar. Res. Lab., 439 W. Sequim Bay Rd., Sequim, WA 98382]

86-005114 Khan, A. and F. M. Bilqees. *PALLISENTIS KALRIAI*, NEW SPECIES (ACANTHOCEPHALA: QUADRIGYRIDAE) FROM THE FISH *LABEO ROHITA* OF KALRI LAKE, SIND, PAKISTAN. *Philipp. J. Sci.* 114(1-2):101-111. 1985. FR 31(4)
[Dep. Zool., Univ. Karachi, Karachi, Pakistan]

86-005115 Kock, K. H. and H. Moller. ON THE OCCURRENCE OF THE PARASITIC COPEPOD *EUBRACHIELLA ANTARCTICA* ON SOME ANTARCTIC FISH. *Arch. Fischereiwiss.* 28(2-3):149-156. 1977. In English with German summ. FR 31(4)

86-005116 Kohn, A. and O. M. Froes. *SACCOCOELIOIDES GODOYI* N.SP. (HAPLOPORIDAE) AND OTHER TREMATODE PARASITES OF FISHES FROM THE GUAIBA ESTUARY, RS, BRAZIL. *Mem. Inst. Oswaldo Cruz* 81(1):67-72. 1986. In English with Portuguese summ. FR 31(4)
[Dep. Helmintol., Inst. Oswaldo Cruz, Caixa Post. 926, 20000 Rio de Janeiro, RS, Brasil]

OTHER DISEASES AND PARASITES (CONTINUED)

86-005117 Lakshmi, I. R.; K. H. Rao and K. Shyamasundari. *RAPHIDASCAROIDES TRACHINOCEPHALUSI* N. SP. (NEMATODA: HETEROCHEILIDAE) FROM MARINE FISHES AT VISAKHAPATNAM. *Indian J. Parasitol.* 9(2):289-291. 1985. From Helminthol. Abstr. Ser. A Anim. Human Helminthol. 55(8):309. 1986. FR 31(4)
[Dep. Zool., Andhra Univ., Waltair-530003, India]

86-005118 Lakshmi, I. R.; K. H. Rao; and K. Shyamasundari. A NEW SPECIES OF *PHILOMETRA* (NEMATODA: PHILOMETRIDAE) FROM THE OVARY OF THE FRESH WATER FISH, *CHANNA ORIENTALIS*, FROM ANDHRA PRADESH. *Indian J. Parasitol.* 9(2):249-250. 1985. From Helminthol. Abstr. Ser. A Anim. Human Helminthol. 55(8):309. 1986. FR 31(4)
[Dep. Zool., Andra Univ., Waltair-530003, India]

86-005119 Lim, L. H. S. FIVE NEW SPECIES OF *SILURODISCOIDES* GUSSEV 1976 (ANCYLODISCOIDINAE: MONOGENA) FROM THE FRESHWATER CATFISH *SILURODES HYPOPHTHALMUS* (BLEEKER). *Malay. Nat. J.* 39(4):265-278. 1986. FR 31(4)
[Jabatan Zool., Univ. Malaya, 59100 Kuala Lumpur, Malaysia]

86-005120 Lo, C.; S. Chen and C. Wang. THE STUDY OF *CLINOSTOMUM COMPLANATUM* (RUD., 1814) V. THE INFLUENCES OF METACERCARIA OF *CLINOSTOMUM COMPLANATUM* ON FISH. *Fish Pathol.* 20(2-3):305-312. 1985. FR 31(4)
[Biol. Dep., Fu-Jen Catholic Univ., Taipei 242, Taiwan, ROC]

86-005121 McCullough, J. S.; I. Fairweather and W. I. Montgomery. THE SEASONAL OCCURRENCE OF *TRILOCULARIA ACANTHIAEVULGARIS* (CESTODA: TETRAPHYLLIDEA) FROM SPINY DOGFISH IN THE IRISH SEA. *Parasitology* 93(1):153-162. 1986. FR 31(4)
[I. Fairweather: Dep. Zool., Queen's Univ., Belfast BT7 1NN, Northern Ireland]

86-005122 McGladdery, S. E. *ANISAKIS SIMPLEX* (NEMATODA: ANISAKIDAE) INFECTION OF THE MUSCULATURE AND BODY CAVITY OF ATLANTIC HERRING *(CLUPEA HARENGUS HARENGUS). Can. J. Fish. Aquatic Sci.* 43(7):1312-1317. 1986. In English with French summ. FR 31(4)
[Dep. Fish. Oceans, Gulf Fish. Cent., Moncton, NB E1C 9B6, Canada]

86-005123 Moser, M. and J. Sakanari. EXPERIMENTAL INFECTION OF BLUE ROCKFISH *(SEBASTES MYSTINUS)* WITH LARVAL ANISAKID NEMATODES. *Fish Pathol.* 21(2):81-83. 1986. FR 31(4)
[Inst. Mar. Sci., Univ. Calif., Santa Cruz 95064]

86-005124 Moser, M. and J. Sakanari. TUBERCULAR LESIONS IN A CENTRAL CALIFORNIA ROCKFISH *(SEBASTES MYSTINUS). Fish Pathol.* 21(2):85-87. 1986. FR 31(4)
[Inst. Mar. Sci., Univ. Calif., Santa Cruz 95064]

86-005125 Mungkaje, A. J. OCCURRENCE OF *CLINOSTOMUM CONPLANATUM* (TREMATODA) IN TWO EXOTIC FISHES. *Sci. New Guinea* 12(2):93-102. 1986. FR 31(4)
[Biol. Dep., Univ. Papua New Guinea, P.O. Box 320, University, Natl. Capital Dist., Papua New Guinea]

OTHER DISEASES AND PARASITES (CONTINUED)

86-005126 Muzzall, P. M. and C. R. Peebles. HELMINTHS OF PINK SALMON, *ONCORHYNCHUS GORBUSCHA*, FROM FIVE TRIBUTARIES OF LAKE SUPERIOR AND LAKE HURON. *Can. J. Zool.* 64(2):508-511. 1986. FR 31(4)
[Dep. Nat. Sci., North Kedzie Lab., Mich. State Univ., East Lansing 48824]

86-005127 Nagasawa, K. PREVALENCE OF VISCERAL ADHESIONS IN SOCKEYE SALMON, *ONCORHYNCHUS NERKA*, IN THE CENTRAL NORTH PACIFIC OCEAN. *Fish Pathol.* 20(2-3):313-321. 1985. FR 31(4)
[Hokkaido Fish. Exp. Stn., 1-2-66 Yunokawa-cho, Hakodate, Hokkaido 042, Japan]

86-005128 Noga, E. J. THE IMPORTANCE OF *LERNEA CRUCIATA* (LE SUEUR) IN THE INITIATION OF SKIN LESIONS IN LARGEMOUTH BASS, *MICROPTERUS SALMOIDES* (LACEPEDE), IN THE CHOWAN RIVER, NORTH CAROLINA, USA. *J. Fish Dis.* 9(4):295-302. 1986. FR 31(4)
[Sch. Vet. Med., N.C. State Univ., Raleigh]

86-005129 Ogawa, K. A MONOGENEAN PARASITE *GYRODACTYLUS MASU* SP. N. (MONOGENEA: GYRODACTYLIDAE) OF SALMONID FISH IN JAPAN. *Bull. Jpn. Soc. Sci. Fish.* 52(6):947-950. 1986. FR 31(4)
[Dep. Fish., Fac. Agric., Univ. Tokyo, Tokyo 113, Japan]

86-005130 Ogawa, K. and M. Hioki. TWO NEW SPECIES OF *GYRODACTYLUS* (MONOGENA: GYRODACTYLIDAE) OF EEL, *ANGUILLA JAPONICA*, WITH SOME DATA ON THE OCCURRENCE OF GYRODACTYLIDS IN GREENHOUSE CULTURE AT YOSHIDA, SHIZUOKA PREFECTURE, JAPAN. *Fish Pathol.* 21(2):89-94. 1986. FR 31(4)
[Dep. Fish., Fac. Agric., Univ. Tokyo, Yayoi, Bunkyo-ku, Tokyo 113, Japan]

86-005131 Ogawa, K. and S. Egusa. TWO NEW SPECIES OF *PARADEONTACYLIX* MCINTOSH, 1934 (TREMATODA: SANGUINICOLIDAE) FROM THE VASCULAR SYSTEM OF A CULTURED MARINE FISH, *SERIOLA PURPRUASCENS*. *Fish Pathol.* 21(1):15-19. 1986. In Japanese with English summ. FR 31(4)
[Dep. Fish., Fac. Agric., Univ. Tokyo, Tokyo 113, Japan]

86-005132 Ogawa, K.; S. Uno and S. Itoh. [INFECTION OF CULTERED EEL WITH *BATRACOBDELLA SMARASDINA* (HIRUDINEA: GLOSSIPHONIIDAE).] *Fish Pathol.* 20(1):67-68. 1985. In Japanese. FR 31(4)

86-005133 Payne, R. R. *LAMPANYCTOPHILUS WISNERI* GEN. ET SP. N. (MONOGENA: DICLIDOPHORIDAE), A GILL PARASITE OF *LAMPANYCTUS RITTERI* (MYCTOPHIDAE) FROM THE EASTERN PACIFIC AND AND EMENDED DESCRIPTION OF *MYCTOPHIPHILUS SPROSTONAE* (MARTIN, 1973) COMB. N. *Proc. Helminthol. Soc. Wash.* 53(2):157-161. 1986. FR 31(4)
[Univ.Nebr. State Mus., Lincoln 68588-0514]

86-005134 Prieto, A.; E. Fayer; and M. Vinjoy. [*CICHLIDOGYRUS SCLEROSUS* INFECTIONS IN INTENSIVELY CULTIVATED GOLDEN PERCH.] *Rev. Salud Anim.* 7(3):291-295. 1985. From Helminthol. Abstr. Ser. A Anim. Human Helminthol. 55(8):305. 1986. In Sapnish with English summ. FR 31(4)
[Empressa Nac. Acuicult., Carretera Cent., Cotorro, Havana, Cuba]

86-005135 Raibaut, A.; P. Berrebi and V. Rousset. USE OF THE ENZYMATIC ELECTROPHORESIS TO COMPARE THE PARASITIC COPEPODS BELONGING TO THE GENUS *LERNAEENICUS* (PENNELLIDAE) ACCORDING TO THE IMPLANTATION AREA IN THE

OTHER DISEASES AND PARASITES (CONTINUED)

86-005135 CONTINUED HOST, *SARDINA PILCHARDUS* (WALBAUM, 1792). *C.R. Acad. Sci. Ser. III Sci. Vie* 303(2):31-36. 1986. In French with English summ. FR 31(4)
[Lab. Ichthyol. Parasitol. Gen., Univ. Sci. Tech. Languedoc, 34060 Montpellier Cedex, France]

86-005136 Rohde, K. DIFFERENCES IN SPECIES DIVERSITY OF MONOGENEA BETWEEN THE PACIFIC AND ATLANTIC OCEANS. *Hydrobiologia* 137(1):21-28. 1986. FR 31(4)
[Dep. Zool., Univ. New England, Armidale, NSW 2351, Australia]

86-005137 Roubal, F. R. HISTOPATHOLOGY OF LEECH, *AUSTROBDELLA BILOBATA* INGRAM, INFESTATION ON THE YELLOWFIN BREAM, *ACANTHOPAGRUS AUSTRALIS* (GUNTHER), IN NORTHERN NEW SOUTH WALES. *J. Fish Dis.* 9(3):213-223. 1986. FR 31(3)
[Scott. Mar. Biol. Assoc., Dunstaffnage Mar. Res. Lab., P.O. Box 3, Oban, Argyll PA34 4AD, Scotland]

86-005138 Roubal, F. R. STUDIES ON MONOGENEANS AND COPEPODS PARASITIZING THE GILLS OF A SPARID *(ACANTHOPAGRUS AUSTRALIS* (GUNTHER)) IN NORTHERN NEW SOUTH WALES. *Can. J. Zool.* 64(4):841-849. 1986. In English with French summ. FR 31(4)
[Scott. Mar. Biol. Assoc., Dunstaffnage Mar. Res. Lab., P.O. Box 3, Oban PA 34 4AD, Scotland]

86-005139 Scott, M. E. EXPERIMENTAL EPIDEMIOLOGY OF *GYRODACTYLUS BULLATARUDIS* (MONOGENEA) ON GUPPIES *(POECILIA RETICULATA)*--SHORT-TERM AND LONG-TERM STUDIES. *Linnean Soc. Symp. Ser.* No. 11. p. 21-38. 1985. FR 31(4)
[Inst. Parasitol., McGill Univ., Macdonald Coll., St. Anne de Bellevue, PQ H9X 1C0, Canada]

86-005140 Sheenko, P. S. [SYSTEMATICS OF NEMATODES FROM THE GENUS *PORRACAECUM*, PARASITIC IN FISH, AND DESCRIPTION OF *MARIPORROCAECUM* N.G.]. *Biol. Morya (Vladivostok)* No. 6. p. 18-23. 1985. From Helminthol. Abstr. Ser. A Anim. Human Helminthol. 55(8):309. 1986. FR 31(4)
[Kafedra Biol. Komsomol'skogo-na-Amure Pedinst., Komsomol'sk-na-Amure 681015, USSR]

86-005141 Shostak, A. W.; T. A. Dick; A. J. Szalai; and L. M. J. Bernier. MORPHOLOGICAL VARIABILITY IN *ECHINORHYNCHUS GADI*, *E. LEIDYI*, AND *SALMONIS* (ACANTHOCEPHALA: ECHINORHYNCHIDAE) FROM FISHES IN NORTHERN CANADIAN WATERS. *Can. J. Zool.* 64(4):985-995. 1986. In English with French summ. FR 31(4)
[Dep. Zool., Univ. Manitoba, Winnipeg, MB R3T 2N2, Canada]

86-005142 Sim, D. S. [EXPERIMENTS ON THE CONTROL OF *HETERAXINE HETEROCERCA* PARASITIZING THE GILL OF CULTURED YELLOWTAIL, *SERIOLA QUINQUERADIATA.*] *Bull. Fish. Res. Dev. Agency* No. 36. p. 105-115. 1985. From Kor. Sci. Abstr. 18(2):41. 1986. In Korean with English summ. FR 31(4)

86-005143 Sirikantayakul, S. OBSERVATIONS ON THE LIFE CYCLE AND EGG-SHELL OF *ORIENTOCREADIUM BATRACHOIDES* TUBANGUI, 1931 (TREMATODA: ALLOCREADIIDAE) IN *CLARIAS MACROCEPHALUS* GUNTHER, 1864. *Philipp. J. Sci.* 114(3-4):183-206. 1985. FR 31(4)
[Coll. Fish., Kasetsart Univ., Bangkok, Thailand]

OTHER DISEASES AND PARASITES (CONTINUED)

86-005144 Smith, J. D. SEASONAL TRANSMISSION OF *RAPHIDASCARIS ACUS* (NEMATODA), A PARASITE OF FRESHWATER FISHES, IN DEFINITIVE AND INTERMEDIATE HOSTS. *Environ. Biol. Fishes* 16(4):295-308. 1986. FR 31(4)
[1114 Checkers Rd., Ottawa, ON K2C 2S4, Canada]

86-005145 Srinivasa Rao, K. and K. Lakshmi. CASE STUDY OF NODULAR EXCRESCENCES IN *ARIUS TENUISPINIS*, HITHERTO CONSIDERED AS OSTEOMA. *Dis. Aquat. Organisms* 1(2):123-130. 1986. FR 31(4)
[Dep. Zool., Andhra Univ., Waltair-530 003, Visakhapatnam, Andhra Pradesh, India]

86-005146 Stables, J. N. and L. H. Chappell. PUTATIVE IMMUNE RESPONSE OF RAINBOW TROUT, *SALMO GAIRDNERI*, TO *DIPLOSTOMUM SPATHACEUM* INFECTIONS. *J. Fish Biol.* 29(1):115-122. 1986. FR 31(4)
[Sch. Pharm., Univ. London, 29/39 Brunswick Square, London WC1N 1AX, England]

86-005147 Stables, J. N. and L. H. Chappell. *DIPLOSTOMUM SPATHACEUM* (RUD. 1819): EFFECTS OF PHYSICAL FACTORS ON THE INFECTION OF RAINBOW TROUT (*SALMO GAIRDNERI*) BY CERCARIAE. *Parasitology* 93(1):71-79. 1986. FR 31(4)
[Sch. Pharm., Univ. London, Brunswick Sq., London WC1N 1AX, England]

86-005148 Stolen, J. PEARL-LIKE TUMORS IN WINTER FLOUNDER. *Underwater Nat.* 16(1):24-25. 1986. FR 31(4)
[Rutgers Univ., Brunswick, NJ]

86-005149 Thoney, D. A. and E. M. Burreson. ECOLOGICAL ASPECTS OF *MULTICALYX CRISTATA* (ASPIDOCOYOTYLEA) INFECTIONS IN NORTHWEST ATLANTIC ELASMOBRANCHS. *Proc. Helminthol. Soc. Wash.* 53(2):162-165. 1986. FR 31(4)
[Va. Inst. Mar. Sci., Sch. Mar. Sci., Coll. William and Mary, Gloucester Point, VA 23062]

86-005150 Torrealba, L.; G. Conroy; D. A. Conroy and J. M. Torrealba. HISTOLOGICAL CHANGES IN SILVER MULLET (*MUGIL CUREMA* VAL., 1836) INFECTED WITH METACERCARIAE OF *PHAGICOLA LONGA* (TREMATODA: HETEROPHYIDAE) IN SOUTH AMERICA. *Riv. It. Piscic. Ittiop.* 21(1):35-37. 1986. In English with Italian summ. FR 31(4)
[D. A. Conroy: Secc. Ictiopatol., Fac. Cienc. Vet., Univ. Cent. Venezuela, Apt. de Correo N. 4563, Maracay 2101, Edo. Aragua, Venezuela]

86-005151 Vinjoy, M.; A. Prieto; E. Fayer; and R. Cartaya. [*CRASSICUTIS* FROM THE GUT OF *CICHLASOMA TETRACANTHUM*.] *Rev. Salud Anim.* 7(3):287-290. 1985. From Helminthol. Abstr. Ser. A Anim. Human Helminthol. 55(8):305. 1986. In Spanish with English summ. FR 31(4)
[Empressa Nac. Acuicult., Carretera Cent., Cotorro, Havana, Cuba]

86-005152 Watermann, B. and V. Dethlefsen. EPIDERMAL HYPERPLASIA AND DERMAL DEGENERATIVE CHANGES AS CELL DAMAGE EFFECTS IN GADOID SKIN. *Arch. Fischereiwiss.* 35(3):205-221. 1985. In English with German summ. FR 31(4)
[Zool. Inst. Mus., Univ. Hamburg, West Germany]

OTHER DISEASES AND PARASITES (CONTINUED)

86-005153 Winch, J. M. and J. Riley. STUDIES OF THE BEHAVIOR, AND DEVELOPMENT IN FISH, OF *SUBTRIQUETRA SUBTRIQUETRA*: A UNIQUELY FREE-LIVING PENTASTOMID LARVA FROM A CROCODILIAN. *Parasitology* 93(1):81-89. 1986. FR 31(4)
[Dep. Biol. Sci., Univ. Dundee, Dundee DD1 4HN, Scotland]

POLLUTION

86-005154 Andersson, G.; S. Fleischer and W. Graneli. INFLUENCE OF ACIDIFICATION ON DECOMPOSITION PROCESSES IN LAKE SEDIMENT. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(2):802-807. 1977. FR 31(4)

86-005155 Baker, J. P. and C. L. Schofield. ACIDIFICATION IMPACTS ON FISH POPULATIONS--A REVIEW. *In: D.D. Adams and W. P. Page (eds.). Acid Deposition: Environmental, Economic, and Policy Issues. Plenum Publ. Corp., N.Y.* p. 183-222. 1985. FR 31(4)
[N.C. State Univ., Acid Deposit Prog., Raleigh 27695]

86-005156 Bendell-Young, L. I. and H. H. Harvey. ACCUMULATION OF CADMIUM BY WHITE SUCKERS (*CATOSTOMUS COMMERSONI*) IN RELATION TO FISH GROWTH AND LAKE ACIDIFICATION. *Can. J. Fish. Aquatic Sci.* 43(4):806-811. 1986. In English with French summ. FR 31(4)
[Dep. Zool., Univ. Toronto, Toronto, ON M5S 1A1, Canada]

86-005157 Bobovnikova, T. I.; Y. P. Virchenko; A. V. Dibtseva; A. V. Yablokov; G. N. Solntseva and D. V. Pastukhov. AQUATIC ANIMALS AS INDICATORS OF THE PRESENCE OF ORGANOCHLORINE PESTICIDES AND POLYCHLORINATED BIPHENYLS IN THE AQUATIC ENVIRONMENT. *Hydrobiol. J. (Engl. Transl. Gidrobiol. Zh.)* 22(2):61-64. 1986. FR 31(4)
[Inst. Exp. Metrol., Obninsk, USSR]

86-005158 Bohle, B. AVOIDANCE OF PETROLEUM HYDROCARBONS BY THE COD (*GADUS MORHUA). Fiskeridir Skr. Ser. Havunders.* 18(3):97-112. 1986. FR 31(4)
[Inst. Mar. Res., Flodevigen Biol. Stn., Arendal, Norway]

86-005159 Brown, M. W.; D. G. Thomas; D. Shurben; J. F. L. G. Solbe; J. Kay and Anthony Cryer. A COMPARISON OF THE DIFFERENTIAL ACCULULATION OF CADMIUM IN THE TISSUES OF THREE SPECIES OF FRESHWATER FISH, *SALMO GAIRDNERI, RUTILUS RUTILUS* AND *NOEMACHEILUS BARBATULUS. Comp. Biochem. Physiol. C Comp. Pharmacol. Toxicol.* 84(2):213-217. 1986. FR 31(4)
[Dep. Biochem., Univ. Coll., Cardiff CFI IXL, UK]

86-005160 Buso, D. C.; C. W. Martin and J. W. Hornbeck. POTENTIAL FOR ACIDIFICATION OF SIX REMOTE PONDS IN THE WHITE MOUNTAINS OF NEW HAMPSHIRE. *Univ. N.H. Water Resour. Res. Cent. Res. Rep.* No. 43. ii+157p. 1984. FR 31(4)
[Univ. N.H. Water Resour. Res. Cent., Durham]

86-005161 Carlberg, G. E.; K. Martinsen; A. Kringstad; E. Gjessing; M. Grande; T. Kallqvist and J. U. Skare. INFLUENCE OF AQUATIC HUMUS ON THE BIOAVAILABILITY OF CHLORINATED MICROPOLLUTANTS IN ATLANTIC SALMON. *Arch.*

POLLUTION (CONTINUED)

86-005161 CONTINUED *Environ. Contam. Toxicol.* 15(5):543-548. 1986. FR 31(4)
[Cent. Indus. Res., Box 350, 0314 Blindern, Oslo 3, Norway.]

86-005162 Carter, J. C. H.; W. D. Taylor; R. Chengalath and D. A. Scruton. LIMNETIC ZOOPLANKTON ASSEMBLAGES IN ATLANTIC CANADA WITH SPECIAL REFERENCE TO ACIDIFICATION. *Can. J. Fish. Aquatic Sci.* 43(2):444-456. 1986. In English with French summ. FR 31(4)
[Dep. Biol., Univ. Waterloo, Waterloo, ON N2L 3G1, Canada]

86-005163 David, M. B. CHEMISTRY DIFFERENCES IN TWO STREAMS ENTERING AN ACIDIC LAKE IN THE ADIRONDACK MOUNTAINS, NEW YORK (U.S.A.). *Water Air Soil Pollut.* 29(4):415-424. 1986. FR 31(4)
[Dep. For., 110 Mumford Hall, 1301 West Gregory Dr., Univ. Ill., Urbana 61801]

86-005164 Edgington, J. R. SOME OBSERVATIONS OF FINE SEDIMENT IN GRAVELS OF FIVE UNDISTURBED WATERSHEDS IN SOUTHEAST ALASKA. *IN W. R. Meehan; T. R. Merrell, Jr. and T. A. Hanley (eds.). Fish and Wildlife Relationships in Old-Growth Forests. (Am. Inst. Fish. Res. Biol.)* p. 109-114. Available @ $20.00 from J. W. Reintjes, Rt. 4, Box 85, Morehead City, NC 28557. FR 31(4)
[Alaska Dep. Fish Game, Petersburg, AK]

86-005165 Eichler, L. W. and D. H. Pope. THE EFFECT OF LAKE ACIDITY LEVELS ON MICROBIAL-FLORA OF SELECTED FISH SPECIES. *In: J. S. Jacobson and L. S. Raymond, (eds.). Proc. Second N.Y. State Symp. Atmos. Deposition.* 1984. p. 199-208. 1984. FR 31(4)
[Dep. Biol., Rensselaer Polytech. Univ., Troy, NY 12181]

86-005166 Feldt, W.; G. Kanisch; M. Kanisch and M. Vobach. RADIOECOLOGICAL STUDIES OF SITES IN THE NORTHEAST ATLANTIC USED FOR DUMPING OF LOW-LEVEL RADIOACTIVE WASTES--RESULTS OF THE RESEARCH CRUISES OF FRV "WALTHER HERWIG" 1980-1984. *Arch. Fischereiwiss.* 35(3):91-195. 1985. In English with German summ. FR 31(4)
[Lab. Radiookol., Gewasser Bundesforsch. Fisch., Hamburg, West Germany]

86-005167 Gobas, F. A. P. C.; A. Opperhuizen and O. Hutzinger. BIOCONCENTRATION OF HYDROPHOBIC CHEMICALS IN FISH: RELATIONSHIP WITH MEMBRANE PERMEATION. *Environ. Toxicol. Chem.* 5(7):637-646. 1986. FR 31(4)
[A. Opperhuizen: Lab. Environ. Toxicol. Chem., Univ. Amsterdam, 1018 WV Amsterdam, Netherlands]

86-005168 Grizzle, J. M. BLACK BULLHEAD: AN INDICATOR OF THE PRESENCE OF CHEMICAL CARCINOGENS. *Water Chlorination* 5:451-460. 1985. FR 31(4)

86-005169 Haines, T. A. ACIDIC PRECIPITATION ANL FISHERIES EFFECTS IN THE NORTHEASTERN US: 1984 UPDATE. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 127-132. 1985. FR 31(4)
[U.S. FWS, Univ. Me., Orono]

86-005170 Hartwell, S. I. VALIDATION OF LABORATORY VERSUS FIELD AVOIDANCE BEHAVIOR OF SCHOOLING FATHEAD MINNOWS TO HEAVY METAL BLENDS RELATIVE TO ACUTE TOXICITY DURING LONG TERM EXPOSURE. *Ph.D. dissertation, VPI&SU.* 138p. 1985. From Diss. Abst. Int. B Sci. Eng. 46(8):2545-2546. 1986. FR 31(4)

POLLUTION (CONTINUED)

86-005171 Hendrey, G. R.(ed.). EARLY BIOTIC RESPONSES TO ADVANCING LAKE ACIDIFICATION. *Butterworth Publishers, Woburn, MA* 1984. FR 31(4)

86-005172 Honda, K; M. Sahrul; H. Hidaka and R. Tatsukawa. ORGAN AND TISSUE DISTRIBUTION OF HEAVY METALS, AND THEIR GROWTH-RELATED CHANGES IN ATLANTIC FISH, *PAGOTHENIA BORCHGREVINKI*. *Agric. Biol. Chem.* 47(11): 2521-2532. 1983. FR 31(4)
[Dep. Environ. Conserv., Ehime Univ., Tarumi 3-5-7, Matsuyama 790, Japan]

86-005173 Huschenbeth, E. [MONITORING OF THE ACCUMULATION OF ORGANOCHLORINES IN FISH.] *Arch. Fischereiwiss.* 28(2-3):173-186. 1977. In German with English summ. FR 31(4)

86-005174 Huschenbeth, E. ON THE ACCUMULATION OF CHLORINATED HYDROCARBONS IN FISH SPECIES OF THE WADDEN SEA. *Arch. Fishereiwiss.* 35(3):197-204. 1985. In German with English summ. FR 31(4)
[Inst. K

#020 1

½sten-Binnenfisch., Bundesforsch. Fisch., Hamburg, West Germany]

86-005175 Ikuta, K. and M. Nakahara. RADIOMANGANESE DISTRIBUTION TO FEMALE AND MALE OF *HALIOTIS DISCUS* AT THE POST-SPAWNING STAGE. *Bull. Jpn. Soc. Sci. Fish.* 52(6):1081-1087. 1986. FR 31(4)
[Lab. Aquatic Environ. Ecol., Dep. Fish., Fac. Agric., Miyazaki Univ., Miyazaki 889-21, Japan]

86-005176 International Council for the Exploration of the Sea. REPORTS ON THE RESULTS OF THE SEVENTH INTERCALIBRATION EXERCISE ON TRACE METALS IN BIOTA (PART 1). *Int. Counc. Explor. Sea Coop. Res. Rep.* 138. 75p. 1986. FR 31(4)
[Palaegade 2-4, 1261 Copenhagen K, Denmark]

86-005177 Isom, B. G.; S. D. Dennis and J. M. Bates. IMPACT OF ACID RAIN AND DEPOSITION ON AQUATIC BIOLOGICAL SYSTEMS. *ASTM, Philadelphia, PA* 120p. 1986. A collection of papers.--RS. Available from ASTM, 1916 Race St., Philadelphia, PA 19103 @ $22.00 (Members $17.60). FR 31(4)

86-005178 Jacobsson, A.; E. Neuman and G. Thoresson. THE VIVIPAROUS BLENNY AS AN INDICATOR OF ENVIRONMENTAL EFFECTS OF HARMFUL SUBSTANCES. *Ambio* 15(4):236-238. 1986. FR 31(4)
[Natl. Swed. Environ. Prot. Bd., Environ. Qual. Lab., Mar. Sect., Box 584, S-740 71 Oregrund, Sweden]

86-005179 Johnson, A. H. ACID DEPOSITION: TRENDS, RELATIONSHIPS, AND EFFECTS. *Environment* 28(4):6-11, 34-39. 1986. FR 31(4)

86-005180 Kai, N.; T. Ueda; M. Takeda; Y. Takeda and A. Kataoka. THE LEVELS OF MERCURY AND SELENIUM IN GONAD OF YELLOW FIN AND ALBACORE. *Bull. Jpn. Soc. Sci. Fish.* 52(6):1049-1053. 1986. FR 31(4)
[Dep. Food Sci. Technol., Shimonoseki Univ. Fish., Shimonoseki 759-65, Japan]

POLLUTION (CONTINUED)

86-005181 Knak, R. B. and U. Seeliger. [REVISION AND RECOMMENDATIONS FOR THE ANALYSIS OF MERCURY AND COPPER IN MARINE AND ESTUARINE ENVIRONMENTS.] *Fund. Univ. Rio Grande Doc. Tec. Oceanogr.* 3. 25p. 1982. In Portuguese with English summ. FR 31(4)
[Univ. Rio Grande, Dep. Oceanogr., Caixa Postal 474, 96200 Rio Grande, RS, Brazil]

86-005182 Larsson, P. ZOOPLANKTON AND FISH ACCUMULATE CHLORINATED HYDROCARBONS FROM CONTAMINATED SEDIMENTS. *Can. J. Fish Aquatic Sci.* 43(7):1463-1466. 1986. In English with French summ. FR 31(4)
[Inst. Limnol., Univ. Lund, Box 65, S-221 00 Lund, Sweden]

86-005183 Leonard, P. M. and D. J. Orth. APPLICATION AND TESTING OF AN INDEX OF BIOTIC INTEGRITY IN SMALL, COOLWATER STREAMS. *Trans. Am. Fish. Soc.* 115(3):401-414. 1986. FR 31(4)
[Dep. Fish. Wildl. Sci., VPI&SU, Blacksburg, VA 24061]

86-005184 Leopold, M.; M. Bninska and W. Nowak. COMMERCIAL FISH CATCHES AS AN INDEX OF LAKE EUTROPHICATION. *Arch. Hydrobiol.* 106(4):513-524. 1986. FR 31(4)
[Inland Fish. Inst., blok 5, 10-957 Olsztyn-Kortowo, Poland]

86-005185 Levy, E. M. BACKGROUND LEVELS OF PETROLEUM RESIDUES ON THE WATERS AND SURFICIAL BOTTOM SEDIMENTS OF THE LABRADOR SHELF AND HUDSON STRAIT/FOXE BASIN REGIONS. *Can. J. Fish. Aquatic Sci.* 43(3):536-547. 1986. In English with French summ. FR 31(4)
[Bedford Inst. Oceanogr., Dartmouth, NS B2Y 4A2, Canada]

86-005186 Malins, D. C.; B. B. McCain; M. M. Krahn; M. S. Myers; J. E. Stein; W. T. Roubal; D. W. Brown; U. Varanasi; H. O. Hodgins and S. Chan. OCCURRENCE OF HEPATIC NEOPLASMS AND OTHER LESIONS IN BOTTOM-DWELLING FISH AND RELATIONSHIP TO POLLUTION IN PUGET SOUND, WASHINGTON. *Water Chlorination* 5:399-414. 1985. FR 31(4)

86-005187 Matthews, M. J.; R. J. Sloan and S. J. Jackling. EFFECT OF URBAN LAKE RESTORATION ON CHEMICAL CONTAMINANTS IN RESIDENT FISH. *N.Y. Fish Game J.* 31(2):217-222. 1986. FR 31(4)
[N.Y. State Dep. Environ. Conserv., Wildl. Resour. Cent., Delmar 12054]

86-005188 Merna, J. W. CONTAMINATION OF STREAM FISHES WITH CHLORINATED HYDROCARBONS FROM EGGS OF GREAT LAKES SALMON. *Trans. Am. Fish. Soc.* 115(1):69-74. 1986. FR 31(4)
[Mich. Dep. Nat. Resour., Inst. Fish. Res., Ann Arbor 48109]

86-005189 Metelev, V. V. A METHOD OF DETECTING ORGANOPHOSPHORUS INSECTICIDES IN WATER AND AQUATIC ORGANISMS. *Hydrobiol. J. (Engl. Transl. Gidrobiol. Zh.)* 20(1):37-40. 1985. FR 31(4)
[All-Union Sci. Res. Inst. Vet. Health, Moscow, USSR]

86-005190 Miettinen, V.; M. Verta; K. Erkomaa and O. Jarvinen. CHLORINATED HYDROCARBONS AND HEAVY METALS IN FISH IN THE FINNISH COASTAL AREAS OF THE GULF OF FINLAND. *Finn. Fish. Res.* No. 6. p. 77-80. 1985. FR 31(4)
[Natl. Bd. Waters, Water Res. Inst., P.O. Box 250, SF-00101 Helsinki, Finland]

POLLUTION (CONTINUED)

86-005191 Mingxing, L.; L. Guoji; B. Wanyou; Z. Shoulin and G. Hongkan. CONCENTRATION OF HEAVY METALS IN THE TISSUES OF FISHES IN QINGHAI-XIZANG (TIBET) PLATEAU. *Oceanol. Limnol. Sin.* 17(1):66-71. 1986. In Chinese with English summ. FR 31(4)
[Inst. Oceanol., Acad. Sin., Qingdao, China]

86-005192 Minns, C. K.; J. R. M. Kelso and M. G. Johnson. LARGE-SCALE RISK ASSESSMENT OF ACID RAIN IMPACTS ON FISHERIES: MODELS AND LESSONS. *Can. J. Fish. Aquatic Sci.* 43(4):900-921. 1986. In English with French summ. FR 31(4)
[Can. Cent. Inland Waters, 867 Lakeshore Rd., P.O. Box 5050, Burlington, ON L7R 4A6, Canada]

86-005193 Morgan, W. S. G. and P. C. Kuhn. ASPECTS OF UTILIZING CONTINUOUS AUTOMATIC FISH BIOMONITORING SYSTEMS FOR INDUSTRIAL EFFLUENT CONTROL. *Adv. Water Pollut. Control* p. 65-73. 1984. FR 31(4)
[Natl. Inst. Water Res., Pretoria 0001, South Africa]

86-005194 Nakamoto, R. J. and M. Page. SIMPLIFIED DETERMINATION OF CARBARYL IN RAINBOW TROUT LIVER TISSUE. *Bull. Environ. Contam. Toxicol.* 37(3):415-420. 1986. FR 31(4)
[Pac. Southwest For. Range Exp. Stn., U.S. For. Serv., Berkeley, CA 94704]

86-005195 Narain, A. S. and P. Nath. SUBMICROSCOPIC HEPATIC AND RENAL PATHOLOGY OF A TELEOST MAINTAINED IN SEWAGE. *Bull. Environ. Cantam. Toxicol.* 37(2):266-273. 1986. FR 31(4)
[Dep. Zool, Univ. Gorakhpur, Gorakhpur 273001, India]

86-005196 Nyronen, J. EFFECTS OF PULP MILL EFFLUENTS ON THE CHANGES OF FISH STOCKS IN LAKE PAIJANNE. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(2):910-913. 1977. FR 31(4)

86-005197 Opperhuizen, A. and R. P. Jongeneel. MIXTURES OF HYDROPHOBIC CHEMICALS IN AQUEOUS ENVIRONMENTS--AQUEOUS SOLUBILITY AND BIOCONCENTRATION BY FISH OF AROCLOR 1254. *In: A. Bjorseth and G. Angeletti, eds. Organic Micropollutants in the Aquatic Environment. D. Reidel, Dordrecht.* 1986. p. 251-260. FR 31(4)
[Environ. Toxicol. Chem. Lab., Univ. Amsterdam, Amsterdam, Netherlands]

86-005198 Paavilainen, K.; A. Langi and J. Tana. EFFECT OF PULP AND PAPER MILL EFFLUENTS ON A FISHERY IN THE GULF OF FINLAND. *Finn. Fish. Res.* No. 6. p. 81-91. 1985. FR 31(4)
[Finnish Pulp Paper Res. Inst., P.O. Box 136, SF-00101 Helsinki, Finland]

86-005199 Palm, T. THE POTENTIAL IMPACT OF HEAVY METAL CONCENTRATIONS IN THE WATERS OF THE SOUTHERN GULF OF FINLAND ON BALTIC HERRING STOCKS. *Finn. Fish. Res.* No. 6. p. 71-76. 1985. FR 31(4)
[Tallinn Dep. Baltic Fish. Res. Inst., Opteegi 1-2, Tallinn, 200001 Estonian SSR, USSR]

86-005200 Parks, J. W.; J. A. Sutton and A. Lutz. EFFECT OF POINT AND DIFFUSE SOURCE LOADINGS ON MERCURY CONCENTRATIONS IN THE WABIGOON RIVER: EVIDENCE OF A SEASONALLY VARYING SEDIMENT-WATER PARTITION. *Can. J. Fish. Aquatic Sci.* 43(7):1426-1444. 1986. In English with French summ. FR 31(4)
[Ontario Minist. Environ., 435 South James St., Thunder Bay, ON P7C 5E6, Canada]

POLLUTION (CONTINUED)

86-005201 Pascoe, D. and R. W. Edwards (eds.). FRESHWATER BIOLOGICAL MONITORING. *Adv. Water Pollut. Control* vii+167p. 1984. FR 31(4)

86-005202 Pedder, S. C. J. and E. J. Maly. THE AVOIDANCE RESPONSE OF GROUPS OF JUVENILE BROOK TROUT, *SALVELINUS FONTINALIS* TO VARYING LEVELS OF ACIDITY. *Aquat. Toxicol.* 8(2):111-119. 1986. FR 31(4)
[Dep. Biol., Concordia Univ., Montreal, PQ H3G 1M8, Canada] Avoidance responses of juvenile brook trout, *Salvelinus fontinalis* were evaluated by exposing separate groups of 20 test individuals to a choice of untreated (pH 7.4) or decarbonated acidic waters at varying pH levels (4.0, 5.0, 5.5, 6.0). Fish behavior during the 96-h test period was recorded with a video camera placed above a two chambered artifical stream apparatus. Results were recorded over cumulative 24-h periods (1-24, 25-48, 49-72, and 73-96 h) and over the entire test period (96 h). Significant avoidance ($p < 0.05$) of acidic waters did not occur until fish had a choice of neutral water and test water at pH 5.0, thus the avoidance threshold for brook trout would lie between pH 5.0 and 5.5. The lower pH levels (4.0, 5.0 and 5.5) were found to affect social interactions between the test individuals. No mortalities occured during any of the control and test periods.

86-005203 Persson, P. OFF-FLAVOURS IN FISH FROM THE GULF OF FINLAND. *Finn. Fish. Res.* No. 6. p. 112-117. 1985. FR 31(4)
[Fed. Finn. Sci. Soc., Snellmanink. 9-11, SF-00170 Helsinki, Finland]

86-005204 Rainio, K.; R. R. Linko and L. Ruotsila. POLYCYCLIC AROMATIC HYDROCARBONS IN MUSSEL AND FISH FROM THE FINNISH ARCHIPELAGO SEA. *Bull. Environ. Contam. Toxicol.* 37(3):337-343. 1986. FR 31(4)
[Dep. Chem. Biochem., Lab. Food Chem., Univ. Turku, SF-20500 Turku, Finland]

86-005205 Reich, A. R.; J. L. Perkins and G. Cutter. DDT CONTAMINATION OF A NORTH ALABAMA AQUATIC ECOSYSTEM. *Environ. Toxicol. Chem.* 5(8):725-736. 1986. FR 31(4)
[Environ. Hazards Epidemiol., Fla. Dep. Health Rehab. Ser., 1317 Winewood Blvd., Tallahassee 32301]

86-005206 Russo, A. R. TEMPORAL CHANGES IN FISH COMMUNITY DIVERSITY NEAR A SEWAGE OUTFALL, MOKAPU, OAHU, HAWAII. *Tex. A&M Sea Grant Prog.* TAMU-SG-83-112 p. 45-59. 1983. FR 31(4)

86-005207 Santa Maria, I.; M. Gonzalez; W. Lara and A. Ober. ARSENIC LEVELS IN CHILEAN MARINE SPECIES. *Bull. Environ. Contam. Toxicol.* 37(4):593-598. 1986. FR 31(4)
[Dep. Quim., Fac. Cienc., Univ. Tec. Federico, Santa Maria, Casilla 110-V Valparaiso, Chile]

86-005208 Schrap, S. M. and A. Opperhuizen. BIOACCUMULATION BY FISH IN RELATIONSHIP TO OXYGEN CONCENTRATION IN WATER. *In: A. Bjorseth and G. Angeletti, eds. Organic Micropollutants in the Aquatic Environment. D. Reidel Dordrecht.* 1986. p. 275-277. FR 31(4)
[Environ. Toxicol. Chem. Lab., Univ. Amsterdam, Amsterdam, Netherlands]

86-005209 Shepard, B. B.; S. A. Leathe; T. M. Weaver and M. D. Enk. MONITORING LEVELS OF FINE SEDIMENT WITHIN TRIBUTARIES TO FLATHEAD LAKE, AND IMPACTS OF FINE SEDIMENT ON BULL TROUT RECRUITMENT. *In: Richardson, F. and*

POLLUTION (CONTINUED)

86-005209 CONTINUED *R. H. Hamre (Tech. eds.). Wild Trout III.* p. 146-156. 1985. FR 31(4)
[Mont. Dep. Game Fish Parks, Kalispell] Streambed samples from known bull trout spawning areas in four tributaries to the North Fork of the Flathead River, Montana demonstrated that spawning areas in one of the tributaries (Coal Creek) contained significantly higher percentages of fine sediment than the other three tributaries. Bull trout embryo survival and subsequent fry emergence success was highly correlated (r^2=0.87) to the percentage of material less than 6.4 mm within the streambed of Coal Creek. A significant correlation (r^2=0.40, $p<0.001$) was found between substrate score and densities of juvenile bull trout (fish longer than 75 mm) in 26 Swan River tributary reaches. Increase in estimated sediment loads attributed to road development (expressed as percentage over natural) was significantly correlated ($p<0.001$) with three different expressions of substrate composition (substrate score, percentage of material less than 6.4 mm, and percentage of material less than 2.0 mm) for 46 Swan River tributary reaches.

86-005210 Singer, R.; D. A. Roberts and C. W. Boylen. BIOLOGICAL EFFECTS OF ACIDIFICATION ON SMALL OLIGOTROPHIC ADIRONDACK LAKES. *In: J. S. Jacobsen and L. S. Raymond, (eds.). Proc. Second N.Y. State Symp. Atmos. Deposition.* 1984. p. 189-198. FR 31(4)
[Dep. Civ. Eng., Syracuse Univ., Syracuse, NY 13210]

86-005211 Snedaker, S. C. COASTAL, MARINE AND AQUATIC ECOLOGY: AN OVERVIEW. *In: A. H. Westing, ed. Herbicides in War: The Long-term Ecological and Human Conseguences. Taylor & Francis, London and Philadelphia.* 1984. p.95-107. FR 31(4)
[Univ. Miami, Miami, FL]

86-005212 Sowards, C. L. RESULTS OF THE SOUTH DAKOTA FIELD OFFICE ECOLOGICAL SERVICES FISH AND WILDLIFE SERVICE 1984 RESEARCH CONTAMINANT ASSESSMENT PROGRAM. *U.S. Fish. Wildl. Serv. Ecol. Serv. S.D. Field Off.* SD-IR-85-02. ii+14p. 1985. FR 31(4)
[U.S. FWS, P.O. Box 986, Pierre, SD 57501]

86-005213 Stagg, R. M. and T. J. Shuttleworth. SURFACTANT EFFECTS ON ANDRENERGIC RESPONSES IN THE GILLS OF THE FLOUNDER (*PLATICHTHYS FLESUS* L.). *J. Comp. Physiol. B Biochem. Syst. Environ. Physiol.* 156(5):727-733. 1986. FR 31(4)
[Dep. Brewing Biol. Sci., Heriot-Watt Univ., Chambers St., Edinburgh EH1 1HX, Scotland]

86-005214 Stephenson, M. and G. L. Mackie. LAKE ACIDIFICATION AS A LIMITING FACTOR IN THE DISTRIBUTION OF THE FRESHWATER AMPHIPOD *HYALELLA AZTECA. Can. J. Fish. Aquatic Sci.* 43(2):288-292. 1986. In English with French summ. FR 31(4)
[Dep. Zool., Univ. Guelph, Guelph, ON N1G 2W1, Canada]

86-005215 Tan, B. and R. A. Coler. EFFECTS OF COAL PILE LEACHATE ON TAYLOR BROOK IN WESTERN MASSACHUSETTS. *Environ. Toxicol. Chem.* 5(10):897-903. 1986. FR 31(4)
[Dep. Chem., Univ. Mass., Amherst 01003]

86-005216 Uthe, J. F. and C. J. Musial. SUMMARY REPORT OF THE FIFTH INTERCOMPARATIVE EXERCISE ON THE DETERMINATION OF ORGANOCHLORINE RESIDUES IN FISH OIL *Int. Counc. Explor. Sea Coop. Fish. Rep.* 136. p. 81-90. 1986.

POLLUTION (CONTINUED)

86-005216 CONTINUED FR 31(4)
[Dep. Fish. Oceans, P.O. Box 550, Halifax, NS B3J 2S7, Canada]

86-005217 Villarreal-Trevino, C. M.; M. E. Obregon-Morales; J. F. Lozano-Morales and A. Villegas-Navarro. BIOACCUMULATION OF LEAD, COPPER, IRON, AND ZINC BY FISH IN A TRANSECT OF THE SANTA CATARINA RIVER IN CADEREYTA JIMENEZ, NUEVO LEON, MEXICO. *Bull. Environ. Contam. Toxicol.* 37(3):395-401. 1986. FR 31(4)
[Unidad Invest. Biomed., Noreste Inst. Mex. Seguro Social, Apt. Post. 020-E 64720 Monterrey, Nuevo Leon, Mexico]

86-005218 Watt, W. D. ACID RAIN AND ATLANTIC SALMON. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 157-161. 1985. FR 31(4)
[Fish. Res. Br., P.O. Box 550, Halifax, NS B3J 2S7, Canada]

86-005219 Weeks, B. A.; J. E. Warinner; P. L. Mason and D. S. McGinnis INFLUENCE OF TOXIC CHEMICALS ON THE CHEMOTACTIC RESPONSE OF FISH MACROPHAGES *J. Fish Biol.* 28(6):653-658. 1986. FR 31(4)
[Va. Inst. Mar. Sci., Sch. Mar. Sci., Coll. William and Mary, Gloucester Point, VA 23062] The chemotactic efficiency of macrophages isolated from the kidney of spot, *Leiostomus xanthurus*, and hogchoker, *Trinectes maculatus*, was determined in fish captured from the York River and the heavily polluted Elizabeth River (Virginia). Chemotactic activity was quantified in Boyden chambers using *Escherichia coli* as the chemotactic stimulus. Macrophage chemotaxis was found to be markedly reduced in the Elizabeth River fish as compared to York River controls. Chemotactic migrations of macrophages at 90 min were 55% and 33% for control and experimental spot, respectively. Values for control and experimental hogchoker were 85% and 56%, respectively. The macrophage chemotactic activity of Elizabeth River fish returned to normal (spot, 56%; hogchoker, 80%) after the fish were held in clean water for 3 weeks. This indicates that the cecreased chemotactic activity was related to exposure to Elizabeth River pollutants but may be reversible.

86-005220 Wilford, D. J. THE SEDIMENT-STORAGE FUNCTION OF LARGE ORGANIC DEBRIS AT THE BASE OF UNSTABLE SLOPES. *IN W. R. Meehan; T. R. Merrell, Jr. and T. A. Hanley (eds.). Fish and Wildlife Relationships in Old-Growth Forests (Am. Inst. Fish. Res. Biol.)* p. 115-119. 1984. Available @ $20.00 from J. W. Reintjes, Rt. 4, Box 85, Morehead City, NC 28557. FR 31(4)
[British Columbia Minist. For., Bag 5000, Smithers, BC V0J 2N0, Canada]

86-005221 Willemsen, J. INFLUENCE OF TEMPERATURAE ON FEEDING, GROWTH AND MORTALITY OF PIKEPERCH AND PERCH. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):2127-2133. 1977. FR 31(4)

86-005222 Wright, R. F. and E. Snekvik. ACID PRECIPITATION: CHEMISTRY AND FISH POPULATIONS IN 700 LAKES IN SOUTHERNMOST NORWAY. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(2):765-775. 1977. FR 31(4)

86-005223 Yen, M. D. and N. X. Quynh. LONG-TERM CHANGES IN THE FRESHWATER FISH FAUNA FOLLOWING HERBICICAL ATTACK. *In: A. H. Westing, ed. Herbicides in War: The Long-term Ecological and Human Consequences. Taylor & Francis, London and Philadelphia.* 1984. p.91-93. FR 31(4)
[Univ. Hanoi, Veitnam]

FISH KILLS

86-005224 Van Hoof, F.; W. Van Craenenbroeck and D. Marivoet. INVESTIGATIONS INTO THE CAUSES OF FISH KILLS OCCURRING IN THE RIVER MEUSE (1979-1983). *Adv. Water Pollut. Control* p. 53-63. 1984. FR 31(4)
[I.V. Antwerpe Waterwesken N.V., Mechelsesteenweg 64, 2018 Antwerp, Belgium]

TOXICOLOGY; BIOASSAYS

86-005225 Abel, P. D. and S. E. Papoutsoglou. LETHAL TOXICITY OF CADMIUM TO *CYPRINUS CARPIO* AND *TILAPIA AUREA*. *Bull. Environ. Contam. Toxicol.* 37(3):382-386. 1986. FR 31(4)
[Dep. Appl. Hydrobiol., Agric. Univ. Athens, Iera Odos 75, Votanikos, 301 Athens, Greece]

86-005226 Alzieu, C.; J. M. Bewers and J. C. Duinker. ADMINISTRATIVE SUMMARY REPORT OF THE ICES FIFTH ROUND INTERCALIBRATION FOR TRACE METALS IN SEA WATER. *Int. Counc. Explor. Sea Coop. Res. Rep.* 136. p. 1-80. 1986. FR 31(4)

86-005227 Andersson, T. and U. Koivusaari. OXIDATIVE AND CONJUGATIVE METABOLISM OF XENOBIOTICS IN ISOLATED LIVER CELLS FROM THERMALLY ACCLIMATED RAINBOW TROUT. *Aquat. Toxicol.* 8(2):85-92. 1986. FR 31(4)
[Dep. Zoophysiol., Univ. Goteborg, Box 25059, 5-400 31 Goteborg, Sweden]

86-005228 Arce, R. G. and A. V. Circa. EFFECT OF FIVE DIFFERENT INSECTICIDES ON THE CULTURE OF *TILAPIA NILOTICA* IN PADDY FIELDS PLANTED TO IR-52. *Freshwater Aquacult. Cent. Cent. Luzon State Univ. Tech. Rep.* No. 20. p. 56-62. 1981. FR 31(4)

86-005229 Ayvazova, L. Y. and A. O. Gvozdov. BIOASSAY OF EFFLUENT FROM FISH PROCESSING PLANTS. *Hydrobiol. J. (Engl. Transl. Gidrobiol. Zh.)* 22(2):110-113. 1986. FR 31(4)

86-005230 Belliyappa, G. and S. R. Reddy. GROWTH AND CONVERSION EFFICIENCY OF THE CATFISH *HETEROPNEUSTES FOSSILIS* (BLOCH) EXPOSED TO SUB-LETHAL CONCENTRATIONS OF SODIUM PENTACHLOROPHENATE. *Pol. Arch. Hydrobiol.* 33(1): 115-120. 1986. FR 31(4)
[Dep. Zool., Bangalore Univ., Jnana Bharathi, Bangalore, 560 056, India]

86-005231 Bengtson, D. A.; A. D. Beck and K. L. Simpson. STANDARDIZATION OF THE NUTRITION OF FISH IN AQUATIC TOXICOLOGICAL TESTING. *IN: C. E. Cowey, ed. Nutrition and Feeding in Fish. Academic Press.* 1985. p. 431-446. FR 31(4)
[Dep. Food Sci. Technol., Nutr. Dietetics, Univ. R.I., Kingston 02881]

86-005232 Bengtsson, B.; M. Tarkpea; T. Sletten; G. E. Carlberg; A. Kringstad and L. Renberg. BIOACCUMULATION AND EFFECTS OF SOME TECHNICAL TRIARYL PHOSPHATE PRODUCTS IN FISH AND *NITOCRA SPINIPES*. *Environ. Toxicol. Chem.* 5(9):853-861. 1986. FR 31(4)
[Swed. Environ. Prot. Bd., Brackish Water Toxicol. Lab., Studsvik, S-611 82 Nykoping, Sweden]

TOXICOLOGY; BIOASSAYS (CONTINUED)

86-005233 Bennett, W. N.; A. S. Brooks and M. E. Boraas. SELINIUM UPTAKE AND TRANSFER IN AN AQUATIC FOOD CHAIN AND ITS EFFECTS ON FATHEAD MINNOW LARVAE. *Arch. Environ. Contam. Toxicol.* 15(5):513-517. 1986. FR 31(4)
[Dep. Biol. Sci., Univ. Wis., Milwaukee 53201]

86-005234 Black, J.; H. Fox; P. Black and F. Bock. CARCINOGENIC EFFECTS OF RIVER SEDIMENT EXTRACTS IN FISH AND MICE. *Water Chlorination* 5:415-427. 1985. FR 31(4)

86-005235 Block, M. and P. Part. INCREASED AVAILABILITY OF CADMIUM TO PERFUSED RAINBOW TROUT *(SALMO GAIRDNERI*, RICH.) GILLS IN THE PRESENCE OF THE COMPLEXING AGENTS DIETHYL DITHIOCARBAMATE, ETHYL XANTHATE AND ISOPROPYL XANTHATE. *Aquatic Toxicol.* 8(4):295-302. 1986. FR 31(4)
[Dep. Zoophysiol., Uppsala Univ., Box 560, S-751 22, Uppsala, Sweden]

86-005236 Borgmann, U. and K. M. Ralph. EFFECTS OF CADMIUM, 2, 4-DICHLOROPHENOL, AND PENTACHLOROPHENOL ON FEEDING, GROWTH, AND PARTICLE-SIZE-CONVERSION EFFICIENCY OF WHITE SUCKER LARVAE AND YOUNG COMMON SHINERS. *Arch. Environ. Contam. Toxicol.* 15(5):473-480. 1986. FR 31(4)
[Great Lakes Fish. Res. Br., Dep. Fish. Oceans, Burlington, ON L7R 4A6, Canada]

86-005237 Bresch, H.; H. Markert; R. Munk and O. H. Spieser. LONG-TERM FISH TOXICITY TEST USING THE ZEBRAFISH: EFFECT OF GROUP FORMATION AND TEMPORARY SEPARATION BY SEX ON SPAWNING. *Bull. Environ. Contam. Toxicol.* 37(4):606-614. 1986. FR 31(4)
[Bundesforsch. Ernahrung, Engesserstr. 20, D-7500 Karlsruke, West Germany]

86-005238 Brown, S. B.; R. E. Evans and T. J. Hara. INTERRENAL, THYROIDAL CARBOHYDRATE, AND ELECTROLYTE RESPONSES IN RAINBOW TROUT (*SALMO GAIRDNERI*) DURING RECOVERY FROM THE EFFECTS OF ACIDIFICATION. *Can. J. Fish. Aquatic Sci.* 43(3):714-718. 1986. In English with French summ. FR 31(4)
[Freshwater Inst., 501 University Crescent, Winnepeg, MB R3T 2N6, Canada]

86-005239 Casillas, E. and W. Ames. HEPATOTOXIC EFFECTS OF CCL_4 ON ENGLISH SOLE (*PAROPHRYS VETULUS*): POSSIBLE INDICATORS OF LIVER DYSFUNCTION. *Comp. Biochem. Physiol. C Comp. Pharmacol. Toxicol.* 84(2): 397-400. 1986. FR 31(4)
[NMFS, 2725 Montlake Blvd. East, Seattle, WA 98112]

86-005240 Chevalier, G.; L. Gauthier; R. Lin; R. S. Nishioka and H. A. Bern. *Exp. Biol.* 45(4):291-299. 1986. FR 31(4)
[Dep. Sci. Biol, Univ. Quebec, C.P. 8888, Succ. A., Montreal, PQ H3C 3P8, Canada]

86-005241 Cleveland, L.; E. E. Little; S. J. Hamilton; D. R. Buckler and J. B. Hunn. INTERACTIVE TOXICITY OF ALUMINUM AND ACIDITY TO EARLY LIFE STAGES OF BROOK TROUT. *Trans. Am. Fish. Soc.* 115(4):610-620. 1986. FR 31(4)
[U.S. FWS, Columbia Natl. Fish. Res. Lab., Rt. 1, Columbia, MO 65201]

86-005242 Collier, T. K.; J. E. Stein; R. J. Wallace and U. Varanasi. XENOBIOTIC METABOLIZING ENZYMES IN SPAWNING ENGLISH SOLE (*PAROPHRYS VETULUS*) EXPOSED TO ORGANIC-SOLVENT EXTRACTS OF MARINE SEDIMENTS FROM

TOXICOLOGY; BIOASSAYS (CONTINUED)

86-005242 CONTINUED CONTAMINATED AND REFERENCE AREAS. *Comp. Biochem. Physiol. C Comp. Pharmacol. Toxicol.* 84(2):291-298. 1986. FR 31(4)
[NMFS, 2725 Montlake Blvd. East, Seattle, WA 98112]

86-005243 Colquhoun, J. R.; H. A. Simonin; H. J. Dean and J. Symula. SWIMMING PERFORMANCE OF JUVENILE BROWN TROUT EXPOSED TO ACUTELY SUBLETHAL CONCENTRATIONS OF NALED. *N.Y. Fish Game J.* 31(2):133-137. 1986. FR 31(4)
[N.Y. State Dep. Environ. Conserv., Rome Field Stn., Rome, NY 13440]

86-005244 Couch, J. A. and L. A. Courtney. ATTEMPTS TO ABBREVIATE TIME TO ENDPOINT IN FISH HEPATOCARCINOGENESIS ASSAYS. *Water Chlorination* 5:377-398. 1985. FR 31(4)

86-005245 Crespo, S. and R. Sala. ULTRSRUCTURAL ALTERATIONS OF THE DOGFISH *(SCYLIORHINUS CANICULA)* GILL FILAMENT RELATED TO EXPERIMENTAL AQUATIC ZINC POLLUTION. *Dis. Aquat. Organisms* 1(2):99-104. 1986. FR 31(4)
[Lab. Biol., Fac. Vet., Univ. Autonoma Barcelona, Bellaterra, Barcelona, Spain]

86-005246 Cruz, E. R. and K. Muroga. STUDIES ON THE TOLERANCE OF JAPANESE EEL (*ANGUILLA JAPONICA*) TO ZINC SULFATE. *Fish Pathol.* 20(4):459-461. 1985. FR 31(4)
[Fac. Appl. Biol. Sci., Hiroshima Univ., Fukuyama 720, Japan]

86-005247 Cusimano, R. F.; D. F. Brakke and G. A. Chapman. EFFECTS OF pH ON THE TOXICITIES OF CADMIUM, COPPER, AND ZINC TO STEELHEAD TROUT (*SALMO GAIRDNERI*). *Can. J. Fish. Aquatic. Sci.* 43(8):1497-1503. 1986. In English with French summ. FR 31(4)
[Inst. Watershed Stud., Western Wash. Univ., Bellingham, WA 98225]

86-005248 Dabrowska, H. and H. Sikora. ACUTE TOXICITY OF AMMONIA TO COMMON CARP (*CYPRINUS CARPIO* L.). *Pol. Arch. Hydrobiol.* 33(1): 121-128. 1986. FR 31(4)
[Dep. Basic Fish. Sci., Fac. Water Prot. Inland Fish., Agric. Tech. Acad., 10-957 Olsztyn-Kortorwo, Poland]

86-005249 Delamarre, P. and M. Truchet. COMPARATIVE STUDY OF MERCURY AND CADMIUM EXPOSURE IN A FRESHWATER FISH *(BRACHYDANIO RERIO)* HISTOLOGICAL MICROANALYSIS OF Cd-INDUCED MINERAL CONCRETIONS. *Vie Milieu* 34(2-3):79-86. 1984. In English with French summ. FR 31(4)
[Lab. Histophysiol. Fond. Appl., U.A. 680 du CNRS, Univ. Pierre et Marie Curie, 12, rue Cuvier, 75005 Paris, France]

86-005250 Doane, T. R.; J. Cairns, Jr. and A. L. Buikema, Jr. COMPARISON OF BIOMONITORING TECHNIQUES FOR EVALUATING EFFECTS OF JET FUEL ON BLUEGILL SUNFISH *(LEPOMIS MACROCHIRUS)*. *Adv. Water Pollut. Control* p. 103-112. 1984. FR 31(4)
[Cent. Environ. Stud., VPI&SU, Blacksburg, VA 24061]

86-005251 Douglas, M. T.; D. O. Chanter; I. B. Pell and G. M. Burney. A PROPOSAL FOR THE REDUCTION OF ANIMAL NUMBERS REQUIRED FOR THE ACUTE TOXICITY TO FISH TEST (LC50 DETERMINATION). *Aquatic Toxicol.* 8(4):

TOXICOLOGY; BIOASSAYS (CONTINUED)

86-005251 CONTINUED 243-249. 1986. FR 31(4)
[Huntingdon Res. Cent., Huntingdon, Cambridgeshire PE18 6ES, England]

86-005252 Edwards, R.; P. Millburn and D. H. Hutson. COMPARATIVE TOXICITY OF CIS-CYPERMETHRIN IN RAINBOW TROUT, FROG, MOUSE, AND QUAIL. *Toxicol. Appl. Pharmacol.* 84(3):512-522. 1986. FR 31(4)
[Dep. Biochem., St. Mary's Hosp. Med. Sch., Norfolk Place, London W2 1PG, England]

86-005253 Eisler, R. DIAZINON HAZARDS TO FISH, WILDLIFE, AND INVERTEBRATES: A SYNOPTIC REVIEW. *U.S. Fish Wildl. Serv. Biol. Rep.* 85(1.9):vii+37p. 1986. FR 31(4)
[U.S. FWS, Patuxent Wildl. Res. Cent., Laurel, MD 20708]

86-005254 Ewell, W. S.; J. W. Gorsuch; R. O. Kringle; K. A. Robillard and R. C. Spiegel. SIMULTANEOUS EVALUATION OF THE ACUTE EFFECTS OF CHEMICALS ON SEVEN AQUATIC SPECIES. *Environ. Toxicol. Chem.* 5(9):831-840. 1986. FR 31(4)
[Health Environ. Lab., Eastman Kodak Co., Rochester, NY 14650]

86-005255 Fava, J. A. and F. W. Meldrim. COMPARISON OF ACUTE TOXICITY AND AVOIDANCE RESPONSES OF ATLANTIC SILVERSIDE AND WHITE PERCH TO CHLORINATED ESTUARINE WATERS. *Water Chlorination* 5:493-520. 1985. FR 31(4)

86-005256 Fjellheim, A.; G. G. Raddum and T. Sagen. EFFECT OF ALUMINIUM AT LOW pH ON THE MORTALITY OF ELVERS (*ANGUILLA ANGUILLA* L.), A LABORATORY EXPERIMENT. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2544-2547. 1983. FR 31(4)

86-005257 Fletcher, T. C. and A. White. NEPHROTOXIC AND HAEMATOLOGICAL EFFECTS OF MERCURIC CHLORIDE IN THE PLAICE (*PLEURONECTES PLATESSA* L.). *Aquat. Toxicol.* 8(2):77-84. 1986. FR 31(4)
[N.E.R.C. Inst. Mar. Biochem., St. Fittick's Rd., Aberdeen ABI 3RA, Scotland]

86-005258 Fortin, C.; D. Lapointe and G. Charpentier. SUSCEPTIBILITY OF BROOK TROUT (*SALVELINUS FONTINALIS*) FRY TO A LIQUID FORMULATION OF *BACILLUS THRUINGIENSIS* SEROVAR. *ISRAELENSIS* (TEKNAR) USED FOR BLACKFLY CONTROL. *Can. J. Fish. Aquatic Sci.* 43(8):1667-1670. 1986. In English with French summ. FR 31(4)
[G. Charpentier: Groupe Rech. Insectes Piqueurs, Univ. Quebec Trois-Rivieres, C.P. 500, Trois-Rivieres, PQ G9A 5H7, Canada]

86-005259 Giesy, J. P. and D. H. Smith. CADMIUM PARTITIONING AND RELATED EFFECTS IN PARASITIZED AND NON-PARASITIZED MOSQUITOFISH (*GAMBUSIA AFFINIS*: POECILIIDAE). *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4): 2405-2412. 1983. FR 31(4)

86-005260 Gluth, G. and W. Hanke. A COMPARISON OF PHYSIOLOGICAL CHANGES IN CARP, *CYPRINUS CARPIO*, INDUCED BY SEVERAL POLLUTANTS AT SUBLETHAL CONCENTRATIONS. *Ecotoxicol. Environ. Safety* 9(2):179-188. 1985. FR 31(4)
[Dep. Zool., The University, D-7500 Karlsruhe, West Germany]

TOXICOLOGY; BIOASSAYS (CONTINUED)

86-005261 Grande, M.; I. P. Muniz and S. Andersen. RELATIVE TOLERANCE OF SOME SALMONIDS TO ACID WATERS. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):2076-2084. 1977. FR 31(4)

86-005262 Hall, W. S.; R. L. Paulson; L. W. Hall, Jr. and D. T. Burton. ACUTE TOXICITY OF CADMIUM AND SODIUM PENTACHLOROPHENATE TO DAPHNIDS AND FISH. *Bull. Environ. Contam. Toxicol.* 37(2):308-316. 1986. FR 31(4)
[Johns Hopkins Univ., Appl. Physics Lab., Aquatic Ecol. Sect, Shady Side, MD 20764]

86-005263 Hamilton, S. J. and P. M. Mehrle. METALLOTHIONEIN IN FISH: REVIEW OF ITS IMPORTANCE IN ASSESSING STRESS FROM METAL CONTAMINANTS. *Trans. Am. Fish. Soc.* 115(4):596-609. 1986. FR 31(4)
[U.S. FWS, Columbia Natl. Fish. Res. Lab., Rt. 1, Columbia, MO 65201]

86-005264 Hasan, M. R. and D. J. Macintosh. ACUTE TOXICITY OF AMMONIA TO COMMON CARP FRY. *Aquaculture* 54(1-2):97-107. 1986. FR 31(4)
[Inst. Aquacult., Univ. Stirling, Stirling FK9 4LA, U.K.]

86-005265 Hawkins, W. E.; R. M. Overstreet; W. W. Walker and C. S. Manning. TUMOR INDUCTION IN SEVERAL SMALL FISH SPECIES BY CLASSICAL CARCINOGENS AND RELATED COMPOUNDS. *Water Chlorination* 5:429-438. 1985. FR 31(4)

86-005266 Hellou, J. and J. F. Payne. EFFECT OF PETROLEUM HYDROCARBONS ON THE BILIARY BILE ACID COMPOSITION OF RAINBOW TROUT *(SALMO GAIRDNERI). Comp. Biochem. Physiol. C Comp. Pharmacol. Toxicol.* 84(2):257-261. 1986. FR 31(4)
[Dep. Fish. Oceans, P.O. Box 5667, St. John's, NF A1C 5X1, Canada]

86-005267 Henry, M. G. and G. J. Atchison. BEHAVIORAL CHANGES IN SOCIAL GROUPS OF BLUEGILLS EXPOSED TO COPPER. *Trans. Am. Fish. Soc.* 115(4):590-595. 1986. FR 31(4)
[U.S. FWS, Great Lakes Fish. Lab., 1451 Green Rd., Ann Arbor, MI 48105]

86-005268 Hinton, D. E.; J. A. Hampton and P. A. McCuskey. JAPANESE MEDAKA LIVER TUMOR MODEL: REVIEW OF LITERATURE AND NEW FINDINGS. *Water Chlorination* 5:439-450. 1985. FR 31(4)

86-005269 Hirata, H.; S. Yamasaki; T. Hisadome and T. Makita. SUB-ACUTE TOXICITY OF BENTHIOCARB HERBICIDE ON HAEMATO-DIAGNOSIS AND GROWTH RATES IN THE CARP, *CYPRINUS CARPIO* L. *Int. Ver. Theor. Agnew. Limnol. Verh.* 21(3):1314-1319. 1980. FR 31(4)

86-005270 Hodson, P. V. and B. R. Blunt. THE EFFECT OF TIME FROM HATCH ON THE YOLK CONVERSION EFFICIENCY OF RAINBOW TROUT, *SALMO GAIRDNERI. J. Fish Biol.* 29(1):37-46. 1986. FR 31(4)
[Can. Cent. Inland Waters, Box 5050, 867 Lakeshore Rd., Burlington, ON L7R 4A6, Canada]

86-005271 Holdway, D. A. and D. G. Dixon. IMPACT OF PULSE EXPOSURE TO METHOXYCHLOR ON FLAGFISH *(JORDANELLA FLORIDAE)* OVER ONE REPRODUCTIVE CYCLE. *Can. J. Fish. Aquatic Sci.* 43(7):1410-1415. 1986. In English with French summ. FR 31(4)
[D. G. Dixon: Dep. Biol., Univ. Waterloo, Waterloo, ON N2L 3G1, Canada]

TOXICOLOGY; BIOASSAYS (CONTINUED)

86-005272 Holdway, D. A. and D. G. Dixon. EFFECTS OF METHOXYCHLOR EXPOSURE OF FLAGFISH EGGS (*JORDANELLA FLORIDAE*) ON HATCHABILITY, JUVENILE METHOXYCHLOR TOLERANCE AND WHOLE-BODY LEVELS OF TRYPTOPHAN, SEROTONIN AND 5-HYDROXYINDOLEACETIC ACID. *Water Res.* 20(7):893-897. 1986. FR 31(4)
[Aquatic Ecol. Div., Natl. Water Res. Inst., Environ. Can., Burlington, ON L7R 4A6, Canada]

86-005273 Humphreys, R. L., Jr. and S. H. Kramer. CIGUATERA AND THE FEEDING HABITS OF THE GREATER AMBERJACK, *SERIOLA DUMERILI*, IN THE HAWAIIAN ARCHIPELAGO. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 2. p. 237-264. 1984. FR 31(4)
[NMFS, P.O. Box 3830, Honolulu, HI 96812]

86-005274 Hutchinson, N. J. and J. B. Sprague. TOXICITY OF TRACE METAL MIXTURES TO AMERICAN FLAGFISH (*JORDANELLA FLORIDAE*) IN SOFT, ACIDIC WATER AND IMPLICATONS FOR CULTURAL ACIDIFICATION. *Can. J. Fish. Aquatic Sci.* 43(3):647-655. 1986. In English with French summ. FR 31(4)
[J. B. Sprague: Dep. Zool., Univ. Guelph, Guelph, ON N1G 2W1, Canada]

86-005275 Ito, B. M.; R. N. Uchida; L. K. Shirai; M. A. Abad; L. H. Kimura and Y. Hokama. RADIOIMMUNOASSAY RESULTS OF CIGUATERA ANALYSIS OF FISHES IN THE NORTHWESTERN HAWAIIAN ISLANDS, 1980-81. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 2. p. 226-236. 1984. FR 31(4)
[NMFS, P.O. Box 3830, Honolulu, HI 96812]

86-005276 James, M. O. XENOBIOTIC CONJUGATION IN FISH AND OTHER AQUATIC SPECIES. *Am. Chem. Soc. Symp. Ser.* 299:29-47. 1986. FR 31(4)
[Dep. Med. Chem., Univ. Fla., Gainesville 32610]

86-005277 James, V. A. and T. Wigham. THE EFFECTS OF CADMIUM ON PROLACTIN CELL ACTIVITY AND PLASMA CORTISOL LEVELS IN THE RAINBOW TROUT *(SALMO GAIRDNERI). Aquatic Toxicol.* 8(4):273-280. 1986. FR 31(4)
[Dep. Appl. Biol., UWIST, P.O. Box 13, Cardiff CF1 3XF, U.K.]

86-005278 Jeney, Z.; G. Jeney; J. Olah; A. Siwicki and I. Danko. PROPANIDID, AN NEW ANAESTHETIC FOR USE IN FISH PROPAGATION. *Aquaculture* 54(1-2):149-156. 1986. FR 31(4)
[Fish. Res. Inst., P.O. Box 47, Szarvas, H-5541, Hungary]

86-005279 Joshi, H. C.; M. K. Mukhopadhyay; U. Bhaumik and P. K. Pandit. COMPATIBILITY OF PHOSPHAMIDON APPLICATION WITH REARING OF CARP FRY IN PADDY FIELDS. *Indian J. Anim. Sci.* 56(6):708-710. 1986. FR 31(4)
[Cent. Inland Fish. Res. Inst., Barrackpore, West Bengal 743 101, India]

86-005280 Kjorsvik, E. MORPHOLOGICAL AND ULTRASTRUCTURAL EFFECTS OF XYLENES UPON THE EMBRYONIC DEVELOPMENT OF THE COD (*GADUS MORHUA* L.). *N.Z. J. Mar. Freshwater Res.* 20(2):65-71. 1986. FR 31(4)
[Inst. Biol. Geol., Univ. Tromso, P.O. Box 3085, N-9001 Tromso, Norway]

86-005281 Kolton, R. J.; P. D. MacMahon; K. A. Jeffrey and F. W. H. Beamish. EFFECTS OF LAMPRICIDE, 3-TRIFLUOROMETHYL-4-NITROPHENOL (TFM) ON THE MACROINVERTEBRATES OF A HARDWATER RIVER. *Hydrobiologia* 139(3):251-267. 1986. FR 31(4)
[Dep. Zool., Coll. Biol. Sci., Univ. Guelph, Guelph, ON N1G 2W1, Canada]

TOXICOLOGY; BIOASSAYS (CONTINUED)

86-005282 Kolupayev, B. I. and V. A. Putintseva. ACTIVITY OF RESPIRATORY ENZYMES OF FISH IN A TOXIC ENVIRONMENT. *Hydrobiol. J. (Engl. Transl. Gidrobiol. Zh.)* 22(2):65-67. 1986. FR 31(4)
[Inst. Ecol. Toxicol., Bailak'sk, USSR]

86-005283 Lauren, D. J. and D. G. McDonald. INFLUENCE OF WATER HARDNESS, pH, AND ALKALINITY ON THE MECHANISMS OF COPPER TOXICITY IN JUVENILE RAINBOW TROUT, *SALMO GAIRDNERI*. *Can. J. Fish. Aquatic Sci.* 43(8):1488-1496. 1986. In English with French summ. FR 31(4)
[Dep. Biol., McMaster Univ., Hamilton, ON L8S 4K1, Canada]

86-005284 Logan, D. T. USE OF SIZE-DEPENDENT MORTALITY MODELS TO ESTIMATE REDUCTIONS IN FISH POPULATIONS RESULTING FROM TOXICANT EXPOSURE. *Environ. Toxicol. Chem.* 5(8):769-775. 1986. FR 31(4)
[Mar. Ecol. Res., Inc., Tappan, NY 10983]

86-005285 Lowe-Jinde, L. and A. J. Niimi. HEMATOLOGICAL CHARACTERISTICS OF RAINBOW TROUT, *SALMO GAIRDNERI* (RICHARDSON), IN RESPONSE TO CADMIUM EXPOSURE. *Bull. Environ. Contam. Toxicol.* 37(3):375-381. 1986. FR 31(4)
[Dep. Zool., Univ. Guelph, Guelph, ON N1G 2W1, Canada]

86-005286 Mallatt, J.; M. G. Barron and C. McDonough. ACUTE TOXICITY OF METHYL MERCURY TO THE LARVAL LAMPREY, *PETROMYZON MARINUS*. *Bull. Environ. Contam. Toxicol.* 37(2):281-288. 1986. FR 31(4)
[Dep. Zool., Wash. State Univ., Pullman 99164-4220]

86-005287 Malte, H. EFFECTS OF ALUMINUM IN HARD, ACID WATER ON METABOLIC RATE, BLOOD GAS TENSIONS AND IONIC STATUS IN THE RAINBOW TROUT. *J. Fish Biol.* 29(2):187-198. 1986. FR 31(4)
[Inst. Biol., Univ. Odense, Campusvej 55, DK-5230 Odense M, Denmark]

86-005288 Mayer, F. L., Jr. and M. R. Ellersieck. MANUAL OF ACUTE TOXICITY: INTERPRETATION AND DATA BASE FOR 410 CHEMICALS AND 66 SPECIES OF FRESHWATER ANIMALS. *U.S. Fish. Wildl. Ser. Resour. Publ.* 160. iii+579p. 1986. FR 31(4)

86-005289 Mayer, F. L., Jr.; K. S. Mayer and M. R. Ellersieck. RELATION OF SURVIVAL TO OTHER ENDPOINTS IN CHRONIC TOXICITY TESTS WITH FISH. *Environ. Toxicol. Chem.* 5(8):737-748. 1986. FR 31(4)
[U.S. EPA, Sabine Island, Gulf Breeze, FL 32561]

86-005290 Mudge, J. E.; T. E. Northstrom and T. B. Stables. ACUTE TOXICITY OF HYDROTHOL 191 TO PHYTOPLANKTON AND RAINBOW TROUT. *Bull. Environ. Contam. Toxicol.* 37(3):350-354. 1986. FR 31(4)
[Environ. Prog., Wash. Publ. Power Supply Syst., P.O. Box 968, Richland, WA 99352]

86-005291 Muramoto, S. VERTEBRAL MALFORMATION IN FISH INDUCED BY DECALCIFICATION FROM THE BONES WITH CADMIUM. *Int. Ver. Theor. Agnew. Limnol. Verh.* 21(3):1309-1313. 1980. FR 31(4)

86-005292 Murty, A. S. TOXICITY OF PESTICIDES TO FISH. *CRC Press, Inc., Boca Raton, Fla.* 1986. 2 Volumes. FR 31(4)

TOXICOLOGY; BIOASSAYS (CONTINUED)

86-005293 Mushiake, K.; T. Nakai and K. Muroga. LOWERED PHAGOCYTOSIS IN THE BLOOD OF EELS EXPOSED TO COPPER. *Fish Pathol.* 20(1):49-53. 1985. In Japanese with English summ. FR 31(4)
[Fac. Appl. Biol Sci., Hiroshima Univ., Fukuyama 720, Japan]

86-005294 Nagler, J. J.; P. Aysola and S. M. Ruby. EFFECT OF SEBLETHAL PENTACHLOROPHENOL ON EARLY OOGENESIS IN MATURING FEMALE RAINBOW TROUT (*SALMO GAIRDNERI*). *Arch Environ. Contam. Toxicol.* 15(5):549-555. 1986. FR 31(4)
[Water Pollut. Lab., Dep. Biol., Concordia Univ., 1455 de Maisonneuve Blvd. West, Montreal, PQ H3G 1M8, Canada]

86-005295 Oladimeji, A. A. AN ARSENIC-BINDING PROTEIN IN RAINBOW TROUT. *Ecotoxicol. Environ. Safety* 9(1):1-5. 1985. FR 31(4)
[Dep. Biol. Sci., Ahmadu Bello Univ., Zaria, Nigeria]

86-005296 Oris, J. T. and J. P. Giesy, Jr. PHOTOINDUCED TOXICITY OF ANTHRACENE TO JUVENILE BLUEGILL SUNFISH (*LEPOMIS MACROCHIRUS* RAFINESQUE): PHOTOPERIOD EFFECTS AND PREDICTIVE HAZARD EVALUATION. *Environ. Toxicol. Chem.* 5(8):761-768. 1986. FR 31(4)
[Zool, Dep., Miami Univ., Oxford, OH 45056]

86-005297 Oris, J. T. THE PHOTO-INDUCED TOXICITY OF POLYCYCLIC AROMATIC HYDROCARBONS TO FISH (*LEPOMIS* SPP., *LEPOMIS MACROCHIRUS*, AND *PIMEPHALES PROMELAS*. *Ph.D. dissertation, Mich. State Univ.* 257p. 1985. From Diss. Abstr. Int. B Sci. Eng. 47(2):452. 1986. FR 31(4)

86-005298 Parina, O. V.; O. P. Danil'chenko; R. D. Ozrina and K. F. Sorvachev. INFLUENCE OF SOME FUNGICIDES ON THE UPTAKE RATE OF INORGANIC PHOSPHORUS BY LOACH, *MISGURNUS FOSSILIS* (COBITIDAE), DURING EMBRYONIC DEVELOPMENT. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(1):106-113. 1986. FR 31(4)
[Dep. Biol., Univ. Moscow, USSR]

86-005299 Parland, W. K. EFFECTS OF CHEMICAL CARCINOGENS ON FISH LIVER HISTOLOGY. *Ph.D. dissertation, Ohio State Univ.* 103p. 1986. From Diss. Abstr. Int. B Sci. Eng. 47(3):963. 1986. FR 31(4)

86-005300 Part, P.; O. Svanberg and E. Bergstrom. THE INFLUENCE OF SURFACTANTS ON GILL PHYSIOLOGY AND CADMIUM UPTAKE IN PERFUSED RAINBOW TROUT GILLS. *Ecotoxicol. Environ. Safety* 9(2):135-144. 1985. FR 31(4)
[Dep. Zoophysiol., P.O. Box 560, S-751 22, Uppsala, Sweden]

86-005301 Pascoe, D.; S. A. Evans and J. Woodworth. HEAVY METAL TOXICITY TO FISH AND THE INFLUENCE OF WATER HARDNESS. *Arch. Environ. Contam. Toxicol.* 15(5):481-487. 1986. FR 31(4)
[Dep. Appl. Biol., Univ. Wales Inst. Sci. Technol., P.O. Box 13, Cardiff CFI 3XF, U.K.

86-005302 Poirier, A.; F. B. Laurencin; G. Bodenned and C. Quentel. [EXPERIMENTAL POISIONING OF THE RAINBOW TROUT, *SALMO GAIRDNERI* RICHARDSON, BY ENGINE DIESEL-OIL: MORTALITIES, HAEMATOLOGICAL CHANGES, HISTORY.] *Aquaculture* 55(2):115-137. 1986. In French with English summ. FR 31(4)
[Minist. Agric., Serv. Vet., Lab. Natl. Pathol. Anim. Aquat., IFREMER Cent. Brest, BP 337, 29273 Brest Cedex, France]

TOXICOLOGY; BIOASSAYS (CONTINUED)

86-005303 Poirier, S. H.; M. L. Knuth; C. D. Anderson-Buchou; L. T. Brooke; A. R. Lima and P. J. Shubat. COMPARATIVE TOXICITY OF METHANOL AND N,N-DIMETHYLFORMAMIDE TO FRESHWATER FISH AND INVERTEBRATES. *Bull. Environ. Contam. Toxicol.* 37(4):615-621. 1986. FR 31(4)
[Cent. Lake Superior Environ. Stud., Univ. Wis., Superior 54880]

86-005304 Prasada Rao, K. S.; K. R. S. Sambasiva Rao; I. K. Ahammad Sahib and K. V. Ramana Rao. COMBINED ACTION OF CARBARYL AND PHENTHOATE ON TISSUE LIPID DERIVATIVES OF MURREL, *CHANNA PUNCTATUS* (BLOCH). *Ecotoxicol. Environ. Safety* 9(1):107-111. 1985. FR 31(4)
[Dep. Neurol., Univ. Mus. Med. Cent., 2500 N. State St., Jackson, MS 39216]

86-005305 Rabalais, S. C.; C. R. Arnold and N. S. Wohlschlag. THE EFFECTS OF IXTOC I OIL ON THE EGGS AND LARVAE OF RED DRUM *(SCIAENOPS OCELLATA). Tex. J. Sci.* 33(1):33-38. 1981. FR 31(4)

86-005306 Ruby, S. M.; D. R. Idler and Y. P. So. THE EFFECT OF SUBLETHAL CYANIDE EXPOSURE ON PLASMA VITELLOGENIN LEVELS IN RAINBOW TROUT (*SALMO GAIRDNERI*) DURING EARLY VITELLOGENESIS. *Arch. Environ. Contam. Toxicol.* 15(5):603-607. 1986. FR 31(4)
Dep. Biol., Concordia Univ., Montreal, PQ H3G 1M8, Canada]

86-005307 Sanders, J. G. DIRECT AND INDIRECT EFFECTS OF ARSENIC ON THE SURVIVAL AND FECUNDITY OF ESTUARINE ZOOPLANKTON. *Can. J. Fish. Aquatic Sci.* 43(3):694-699. 1986. In English with French summ. FR 31(4)
[Benedict Estuarine Res. Lab., Benedict, MD 20612]

86-005308 Santiago, L. P. and R. D. Recometa. BIO-ASSAY: EVALUATION OF THREE AGRICULTURAL HERBICIDES ON THE SURVIVAL OF NILE TILAPIA *(TILAPIA NILOTICA)* AND CRUCIAN CARP *(CARASSIUS CARASSIUS)* FINGERLINGS. *Freshwater Aquacult. Cent. Cent. Luzon State Univ. Tech. Rep.* No. 20. p. 19-29. 1981. FR 31(4)

86-005309 Saxena, P. K.; K. Mani and J. K. Kondal. EFFECT OF SAFE APPLICATION RATE (SAR) CONCENTRATIONS OF SOME BIOCIDES ON THE GONADS OF THE FRESH WATER MURREL, *CHANNA PUNCTATUS* (BL.)--A BIOCHEMICAL STUDY. *Ecotoxicol. Environ. Safety* 12(1):1-14. 1986. FR 32(4)
[Dep. Zool., Fac. Basic Sci., Punjab Agric. Univ., Ludhiana 141 004, India]

86-005310 Scherer, E.; S. E. Harrison and S. B. Brown. LOCOMOTOR ACITVITY AND BLOOD PLASMA PARAMETERS OF ACID-EXPOSED LAKE WHITEFISH, *COREGONUS CLUPEAFORMIS. Can. J. Fish. Aquatic Sci.* 43(8):1556-1561. 1986. In English with French summ. FR 31(4)
[Freshwater Inst., 501 University Crescent, Winnipeg, MB R3T 2N6, Canada]

86-005311 Schnick, R. A.; F. P. Meyer and D. L. Gray. A GUIDE TO APPROVED CHEMICALS IN FISH PRODUCTION AND FISHERY RESOURCE MANAGEMENT. *Ark. Coop. Ext. Serv. Publ. MP 241.* 24p. 1986. Available from Albert Squire, Publ. Dist. Off., Univ. Ark. Coop. Ext. Serv., P.O. Box 391, Little Rock 72203.

86-005312 Schnute, J. and J. O. T. Jensen. A GENERAL MULTIVARIATE DOSE-RESPONSE MODEL. *Can. J. Fish. Aquatic Sci.* 43(9):1684-1693. 1986. In English with French summ. FR 31(4)
[Pac. Biol. Stn., Nanaimo, BC V9R 5K6, Canada]

TOXICOLOGY; BIOASSAYS (CONTINUED)

86-005313 Schom, C. B. GENETIC, ENVIRONMENTAL, AND MATURATIONAL EFFECTS ON ATLANTIC SALMON (*SALMO SALAR*) SURVIVAL IN ACUTE LOW pH TRIALS. *Can. J. Fish. Aquatic Sci.* 43(8):1547-1555. 1986. In English with French summ. FR 31(4)
[Aitken Bicentennial Exhibition Cent., 20 Hazen Ave., St. John, NB E2L 3G8, Canada]

86-005314 Schultz, M. E. and R. J. Schultz. TRANSPLANTABLE CHEMICALLY-INDUCED LIVER TUMORS IN THE VIVIPAROUS FISH *POECILIOPSIS. Exp. Molec. Pathol.* 42:320-330. 1985. FR 31(4)
[Biol. Sci. Group, Univ. Conn., Storrs 06268]

86-005315 Sephar, R. L. and J. T. Fiandt. ACUTE AND CHRONIC EFFECTS OF WATER QUALITY CRITERIA-BASED METAL MIXTURES ON THREE AQUATIC SPECIES. *Environ. Toxicol. Chem.* 5(10):917-931. 1986. FR 31(4)
[U.S. EPA, Environ. Res. Lab., Duluth, MN 55804]

86-005316 Shanker, R. and P. K. Seth. TOXIC EFFECTS OF ACRYLAMIDE IN A FRESHWATER FISH, *HETEROPNEUSTES FOSSILIS. Bull. Environ. Contam. Toxicol.* 37(2):274-280. 1986. FR 31(4)
[P. K. Seth: Indus. Toxicol. Res. Cent., P.B. 80, Mahatma Gandhi Marg, Lucknow -226 001, India]

86-005317 Skogheim, O. K. and B. O. Rosseland. MORTALITY OF SMOLT OF ATLANTIC SALMON, *SALMO SALAR* L., AT LOW LEVELS OF ALUMINUM IN ACIDIC SOFTWATER. *Bull Environ. Contam. Toxicol.* 37(2):258-265. 1986. FR 31(4)
[Dir. Nat., Fish Res. Div., P.O. 63, 1432 As-NLH, Norway]

86-005318 Svobodova, Z.; R. Faina; L. Groch and J. Machova. [STUDY ON THE ETIOLOGY OF THE TOXIC NECROSIS OF CARP GILLS.] *Bul. Vurh Vodnany* 22(2): 3-13. 1986. In Czech with English summ. FR 31(4)
[Vyzkumny ustav rybar. Hydrobiol., 389 25 Vodnany, Czechoslovakia]

86-005319 Tam, W. H. and P. D. Payson. EFFECTS OF CHRONIC EXPOSURE TO SUBLETHAL pH ON GROWTH, EGG PRODUCTION, AND OVULATION IN BROOK TROUT, *SALVELINUS FONTINALIS. Can. J. Fish. Aquatic Sci.* 43(2):275-280. 1986. In English with French summ. FR 31(4)
[Dep. Zool., Univ. West. Ontario, London, ON N6A 5B7, Canada]

86-005320 Tana, J. and E. Nikunen. PHYSIOLOGICAL RESPONSES OF RAINBOW TROUT IN A PULP AND PAPER MILL RECIPIENT DURING FOUR SEASONS. *Ecotoxicol. Environ. Safety* 12(1):22-34. 1986. FR 31(4)
[Finnish Pulp Paper Inst., P.O. B. 136, SF-00101 Helsinki 10, Finland]

86-005321 Tarbox, N. T. and R. A. Angus. PHENOL RESISTANCE IN MOSQUITOFISH (*GAMBUSIA AFFINIS*): A STUDY OF PHYSIOLOGICAL MECHANISMS. *J. Ala. Acad. Sci.* 57(3):113. 1986. Abstract only. FR 31(4)
[Biol. Dep., Univ. Ala., Birmingham 35294]

86-005322 Tomasso, J. R. COMPARATIVE TOXICITY OF NITRITE TO FRESHWATER FISHES. *Aquat. Toxicol.* 8(2):129-137. 1986. FR 31(4)
[Aquat. Stn., Southwest Tex. State Univ., San Marcos 78666]

86-005323 Tomasso, J. R. and G. G. Murphy. EFFECTS OF ALDRIN AND HEPTACHLOR ON SURVIVAL AND FIN REGENERATION IN THE PUGNOSE SHINER *NOTROPIS ANOGENUS. J. Tenn. Acad. Sci.* 58(1-2):20-22. 1983. FR 31(4)
[Southwest Tex. State Univ., San Marcos 78666]

TOXICOLOGY; BIOASSAYS (CONTINUED)

86-005324 Tucker, C. S.; R. Francis-Floyd and M. H. Beleau. ACUTE TOXICITY OF SAPONIFIED CASTOR OIL TO CHANNEL CATFISH, *ICTALURUS PUNCTATUS*, UNDER LABORATORY AND FIELD CONDITIONS. *Bull. Environ. Contam. Toxicol.* 37(2): 297-302. 1986. FR 31(4)
[Miss. Agric. For. Exp. Stn., Stoneville, MS 38776]

86-005325 Vuorinen, P. J. and M. Vuorinen. EFFECTS OF BLEACHED KRAFT MILL EFFLUENT ON REPRODUCTION OF BROWN TROUT (*SALMO TRUTTA* L.) ON A RESTRICTED DIET. *Finn. Fish. Res.* No. 6. p. 92-105. 1985. FR 31(4)
[Finn. Game Fish. Res. Inst., Fish. Div., Unionkatu 45B 42, SF-00170 Helsinki, Finland]

86-005326 Walczak, B. Z.; U. T. Hammer and P. Ming Huang. ECOPHYSIOLOGY AND MERCURY ACCUMULATION OF RAINBOW TROUT (*SALMO GAIRDNERI*) WHEN EXPOSED TO MERCURY IN VARIOUS CONCENTRATIONS OF CHLORIDE. *Can. J. Fish. Aquatic Sci.* 43(3):710-714. 1986. In English with French summ. FR 31(4)
[Great Lakes Fish. Res. Br., Can. Cent. Inland Waters, Burlington, ON L7R 4A6, Canada]

86-005327 Weiner, G. S.; C. B. Schreck and H. W. Li. EFFECTS OF LOW pH ON REPRODUCTION OF RAINBOW TROUT. *Trans. Am. Fish. Soc.* 115(1):75-82. 1986. FR 31(4)
[Oreg. Coop. Fish. Res. Unit., Oreg. State Univ., Corvallis 97331]

86-005328 Witters, H. E. ACUTE ACID EXPOSURE OF RAINBOW TROUT, *SALMO GAIRDNERI* RICHARDSON: EFFECTS OF ALUMINIUM AND CALCIUM ON ION BALANCE AND HAEMATOLOGY. *Aquatic Toxicol.* 8(3):197-210. 1986. FR 31(3)
[SCK/CEN, Dep. Radiobiol., Mineral Metabolism Lab., Boeretang 200, 2400 Mol, Belgium]

86-005329 Yang, H. C. and S. K. Chun. [HISTOPATHOLOGICAL STUDY OF ACUTE TOXICITY OF AMMONIA ON COMMON CARP, *CYPRINUS CARPIO.*] *Bull. Korean Fish. Soc.* 19(3):249-256. 1986. In Korean with English summ. FR 31(4)
[Dep. Aquacult., Natl. Yosu Junior Fish. Coll., Yosu 542, Korea]

86-005330 Yarbrough, J. D.; R. T. Roush; J. C. Bonner and D. A. Wise. MONOGENIC INHERITANCE OF CYCLODIENE INSECTICIDE RESISTANCE IN MOSQUITOFISH, *GAMBUSIA AFFINIS*. *Experientia (Basel)* 42(7):851-853. 1986. FR 31(4)
[Dep. Biol. Sci., Miss. State Univ., Mississippi State 39762]

86-005331 Zuchelkowski, E. M.; R. C. Lantz and D. E. Hinton. SKIN MUCOUS CELL RESPONSE TO ACID STRESS IN MALE AND FEMALE BROWN BULLHEAD CATFISH, *ICTALURUS NEBULOSUS* (LESUEUR). *Aquatic Toxicol.* 8(3):139-148. 1986. FR 31(4)
[D. E. Hinton: Dep. Anat., W. Va. Univ. Med. Cent., Morgantown 26506]

FISH TOXICANTS

86-005332 Dawson, V. K.; D. A. Johnson and J. L. Allen. LOSS OF LAMPRICIDES BY ADSORPTION ON BOTTOM SEDIMENTS. *Can. J. Fish. Aquatic Sci.* 43(8):1515-1520. 1986. In English with French summ. FR 31(4)
[U.S.FSW, P.O. Box 818, La Crosse, WI 54602-0818]

FISH TOXICANTS (CONTINUED)

86-005333 Kleinow, K. M.; M. L. Haasch and J. J. Lech. THE EFFECT OF TRICAINE ANESTHESIA UPON INDUCTION OF SELECT P-450 DEPENDENT MONOOXYGENASE ACTIVITIES IN RAINBOW TROUT *(SALMO GAIRDNERI). Aquatic Toxicol.* 8(4):231-241. 1986. FR 31(4)
[NIEHS Aquatic Biomed. Cent., Dep. Pharmacol. Toxicol., Med. Coll. Wisconsin, Milwaukee]

RESEARCH AND MANAGEMENT-GENERAL

86-005334 Abrams, D. THE WORTH OF A WILD TROUT. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 23-25. 1985. FR 31(4)

86-005335 Andreev, N. N.; M. Y. Drapatsky and R. S. Dorovskikh. [A SYSTEM OF ASSESSMENT OF CATCH PREDICTION RELIABILITY.] *IN: Mathematical and Informational Requirements for Natural Resource Studies. VNIRO*, 1985. p. 166-176. In Russian with English summ. FR 31(4)

86-005336 Arnett, G. R. DON'T SHOOT THE MESSENGER--THE VIEW FROM THE POTOMAC. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 14-17. 1985. FR 31(4)
[NRA, Washington, DC]

86-005337 Behnke, R. J. A STEP TOWARD RESOLVING ENDANGERED SPECIES CONFLICTS IN UPPER COLORADO RIVER BASIN. *Proc. Desert Fishes Counc.* 13-15:352-353. 1985. Summ. only. FR 31(4)

86-005338 Busdosh, M. and R. Freeman. MOVEMENT OF ENERGY BY PREDATION IN SPATIALLY INTERMITTENT STREAMS. *Proc. Desert Fishes Counc.* 13-15:160-161. 1985. Abstract only. In English and Spanish. FR 31(4)

86-005339 Busdosh, M. WHISTLING INTO PLATO'S CAVE: AFFECTING THE ENVIRONMENTAL IMPACT STATEMENT. *Proc. Desert Fishes Counc.* 13-15:109-110. 1985. Abstract only. In English and Spanish. FR 31(4)

86-005340 Cherny, E. I. [INFORMATION SERVICE FOR STUDIES ON BIOLOGICAL RESOURCES.] *IN: Mathematical and Informational Requirements for Natural Resource Studies. VNIRO*, 1985. p. 3-7. In Russian with English summ. FR 31(4)

86-005341 Crowell, J. B., Jr. MULTIPLE USE, MULTIPLE DISCIPLINES, AND LIMITED FUNDING. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 18-22. 1985. FR 31(4)
[USDA, Washington, DC]

86-005342 Dillard, J. G.; L. K. Graham and T. R. Russell,(eds.) THE PADDLEFISH: STATUS, MANAGEMENT AND PROPAGATION. *North Cent. Div. Am. Fish. Soc. Spec. Publ.* No. 7. vi + 159p. 1986. Available at $9.00 ($11.00 Foreign) from Joe G. Dillard, 1110 College Ave., Columbia, MO 65201. FR 31(4)

86-005343 Dysart, B. C. III. WATERSHEDS, WATER, AND TROUT: A MORE APPROPRIATE SYSTEM FOR TODAY'S AGENDA. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 7-13. 1985. FR 31(4)

RESEARCH AND MANAGEMENT-GENERAL (CONTINUED)

86-005344 Gerstung, E. R. THE STATUS AND MANAGEMENT OF THE LAHONTAN CUTTHROAT TROUT (*SALMO CLARKI HENSHAWI*, SNYDER). *Proc. Desert Fishes Counc.* 13-15:283-292. 1985. FR 31(4)

86-005345 Graff, D. R. WILD TROUT MANAGEMENT IN THE KEYSTONE STATE. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 53-60. 1985. FR 31(4)
[Div. Fish., Pa. Fish Comm., Bellefonte, PA]

86-005346 Greenley, J. C. THE PACIFIC FISHERY MANAGEMENT COUNCIL'S ROLE IN SALMON MANAGEMENT. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 171-174. 1985. FR 31(4)
[Pac. Fish. Manage. Counc., 526 S.W. Mill St., Portland, OR]

86-005347 Grundy, R. L. and R. T. Ford. 10TH ANNUAL CONFERENCE OF THE INTERNATIONAL ASSOCIATION OF MARINE SCIENCE LIBRARIES AND INFORMATION CENTERS. YEAR OF THE OCEANS: SCIENCE OF INFORMATION HANDLING. 287p. 1985. A Collection of Papers.--RS. Available @ $12.50 from Int. Assoc. Mar. Sci. Libraries. FR 31(4)
[Inf. Cent., Univ. Tex. Mar. Sci. Inst., Port Aransas 78373-1267]

86-005348 Haley, K. B. SOME OR STUDIES IN FISHING IN DEVELOPING REGIONS. *In: 1984 Inernational Conference on Operations Research in Resources and Requirements in Southern Africa. 1984. CSIR, Pretoria.* p. 41-52. FR 31(4)
[Dep. Eng. Prod., Univ. Birmingham, Birmingham B15 2TT West Midlands, England]

86-005349 Havelka, M.; C. A. Booth; K. G. Whitney and C. E. Whitney. GROWTH AND POPULATION STRUCTURE OF THE MOHAVE CHUB. *Proc. Desert Fishes Counc.* 13-15:111-123. 1985. FR 31(4)

86-005350 Horton, J. L. and D. P. Lee. HARVEST AND MORTALITY OF TOURNAMENT CAUGHT AND RELEASED LARGEMOUTH BASS AT DON PEDRO RESERVOIR, CALIFORNIA. *Calif. Dep. Fish Game Inland Fish. Admin. Rep.* No. 82-3. 8p. 1982. FR 31(4)

86-005351 Johnson, B. L. and R. A. Stein. COMPETITION FOR OPEN-ACCESS RESOURCES: A CLASS EXERCISE THAT DEMONSTRATES THE TRAGEDY OF THE COMMONS. *Fisheries (Bull. Am. Fish. Soc.)* 11(3):2-6. 1986. FR 31(4)
[Cent. Limnol., Univ. Wis., Madison 53706]

86-005352 Kennedy, J. J. EARLY CAREER DEVELOPMENT OF FOREST SERVICE FISHERIES MANAGERS. *Fisheries (Bull. Am. Fish. Soc.)* 11(4):8-13. 1986. FR 31(4)
[For. Resour. Dep., Utah State Univ., Logan 84322]

86-005353 Kolmakov, I. B. and V. I. Slyusar. [TRACK SELECTION DURING AREA SEARCH IN FISHERY DATA PROCESSING SYSTEMS.] *IN: Mathematical and Informational Requirements for Natural Resource Studies. VNIRO*, 1985. p. 88-97. In Russian with English summ. FR 31(4)

86-005354 McClelland, P. K. CARRYING THE CREEL. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 181-186. 1985. FR 31(4)
[Trout Unlimited, Vienna, VA]

RESEARCH AND MANAGEMENT-GENERAL (CONTINUED)

86-005355 Netsch, N. and R. E. Putz. WILD TROUT IN ALASKA--NOW AND IN THE FUTURE. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 26-31. 1985. FR 31(4)
[U.S. FWS, Anchorage, AK]

86-005356 Radant, R. D. and T. J. Hickman. STATUS OF THE JUNE SUCKER (*CHASMISTES LIORUS*). *Proc. Desert Fishes Counc.* 13-15:277-282. 1985. FR 31(4)

86-005357 Shelton, P. A.; G. Devilliers and R. J. M. Crawford. SOUTHERN AFRICAN PELAGIC FISH RESOURCES--TOWARDS A STRUCTURED MANAGEMENT APPROACH. *In: 1984 International Conference on Operations Research in Resources and Requirements in Southern Africa. 1984. CSIR, Pretoria.* p. 343-370. FR 31(4)
[Sea Fish. Res. Inst., Cape Town, South Africa]

86-005358 Smith, C. L. THE LIFE CYCLE OF FISHERIES. *Fisheries (Bull. Am. Fish. Soc.)* 11(4):20-25. 1986. FR 31(4)
[Dep. Anthropol., Oreg. State Univ., Corvallis 97331]

86-005359 Smith, M. L. and R. R. Miller. CONSERVATION OF DESERT SPRING HABITATS AND THEIR ENDEMIC FAUNA IN NORTHERN CHIHUAHUA, MEXICO. *Proc. Desert Fishes Counc.* 13-15:54-63. 1985. FR 31(4)

86-005360 Steffereud, J. A. HABITAT MANAGEMENT FOR NATIVE SOUTHWESTERN TROUT. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 192. 1985. FR 31(4)
[USDA For. Serv., 517 Gold Ave. S.W., Albuquerque, NM 87102]

86-005361 Stolte, L. W. ATLANTIC SALMON. *Audubon Wildl. Rep.* 1986. p. 697-713. 1986. FR 31(4)

86-005362 Thurow, R. WILD STEELHEAD TROUT POPULATIONS IN IDAHO. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 38-40. 1985. FR 31(4)
[Idaho Dep. Fish Game, McCall]

86-005363 Turner, S. E. MISSOURI TROUT: WISE USE OF A LIMITED RESOURCE. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 85-89. 1985. FR 31(4)
[Mo. Dep. Conserv., Columbia]

86-005364 Warner, K. and K. A. Havey. LIFE HISTORY, ECOLOGY AND MANAGEMENT OF MAINE LANDLOCKED SALMON *(SALMO SALAR). Me. Dep. Inland Fish. Wildl.* vii+127p. 1985. FR 31(4)
[Me. Dep. Inland Fish. Wildl., Augusta]

86-005365 Willis, D. W. and R. F. Hartmann. THE KANSAS BLACK BASS TOURNAMENT MONITORING PROGRAM. *Fisheries (Bull. Am. Fish. Soc.)* 11(3): 7-10. 1986. FR 31(4)
[Kans. Fish Game Comm., P.O. Box 1525, Emporia 66801]

86-005366 Wilson, W. J. UNITED STATES ARCTIC SCIENCE POLICY AND FISHERY RESEARCH IN ALASKA. *Alaska Sci. Conf.* 36:213. 1985. Abstract only. FR 31(4)

RESEARCH AND MANAGEMENT-GENERAL (CONTINUED)

86-005366 CONTINUED
[Arctic Environ. Inf. Data Cent., Univ. Alaska, 707 A St., Anchorage 99501]

ADMINISTRATION AND PLANNING

86-005367 Atlantic Salmon Federation. SALMON GENETICS RESEARCH PROGRAM. *Atl. Salmon Fed. Annu. Rep.* iv+30p. 1986. FR 31(4)
[P.O. Box 429, St. Andrews, NB EOG 2X0, Canada]

86-005368 Harville, J. P. SUMMARY REPORT AND RECOMMENDATIONS. AFS COMMITTEE ON FEDERAL FISHERIES RESPONSIBILITIES. *Fisheries (Bull. Am. Fish. Soc.)* 11(4):2-6. 1986. FR 31(4)

86-005369 Miller, M. L. and R. P. Gale. PROFESSIONAL STYLES OF FEDERAL FOREST AND MARINE FISHERIES RESOURCE MANAGERS. *N. Am. J. Fish. Manage.* 6(2):141-148. 1986. FR 31(4)
[Inst. Mar. Stud., Coll. Ocean Fish. Sci., Univ. Wash., Seattle 98195]

REPORTS OF FISHERY STATIONS, STATES, ETC.

86-005370 EIFAC. NATIONAL REPORTS OF EIFAC MEMBER COUNTRIES FOR THE PERIOD JANUARY 1984-DECEMBER 1985. *EIFAC Occas. Pap. No. 16. v+131p. 1986. FR 31(4)*
[FAO Of The UN, Rome, Italy]

86-005371 Finnish Game and Fisheries Research Institute. [REPORT ON THE ACTIVITIES OF THE FISHERIES DIVISION OF THE FINNISH GAME AND FISHERIES RESEARCH INSTITUTE IN 1983.] Tiedonantoja No. 23. 1-11. 1985. In Swedish. FR 31(4)

86-005372 Freshwater Biological Association. FIFTY-FOURTH ANNUAL REPORT. *Freshwater Biol. Assoc. Annu. Rep.* 152p. 1986. FR 31(4)
[Ambleside, Cumbria, England]

86-005373 McGill University Institute of Oceanography. INSTITUE OF OCEANOGRAPHY BIENNIAL REPORT 1984 & 1985. *McGill Univ. Inst. Oceanogr. Biennial Rep. 1984-1985.* 41p. 1986.
[3620 University St., Montreal, PQ H3A 2B2, Canada]

HABITAT ALTERATIONS

86-005374 Alabaster, J. S.,(ed.). HABITAT MODIFICATION AND FRESHWATER FISHERIES. *EIFAC* x+278p. 1985. A Collection of papers.--RS. FR 31(4)

86-005375 Bacalbasa-Dobrovici, N. THE EFFECTS ON FISHERIES OF NON-BIOTIC MODIFICATIONS OF THE ENVIRONMENT IN THE EAST-DANUBE RIVER AREA. *In: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 13-27. In English with French summ. FR 31(4)

HABITAT ALTERATIONS (CONTINUED)

86-005376 Backiel, T. FALL OF MIGRATORY FISH POPULATIONS AND CHANGES IN COMMERCIAL FISHERIES IN IMPOUNDED RIVERS IN POLAND. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 28-46. In English with French summ. FR 31(4)

86-005377 Behnke, R. J. EMPIRICAL EVIDENCE AND INFERENCE AS A PROVISIONAL BASIS FOR PREDICTION AND MANAGEMENT OF UPPER COLORADO RIVER BASIN FISHES. *Proc. Desert Fishes Counc.* 13-15:351. 1985. Abstract only. FR 31(4)

86-005378 Bisson, P.A. and J. R. Sedell. SALMONID POPULATIONS IN STREAMS IN CLEARCUT VS. OLD-GROWTH FORESTS OF WESTERN WASHINGTON. *IN W. R. Meehan; T. R. Merrell, Jr. and T. A. Hanley (eds.) Fish and Wildlife Relationships in Old-Growth Forest. (Am. Inst. Fish. Res. Biol.)* p. 121-130. 1984. Available @ $20.00 from J. W. Reintjes, Rt. 4, Box 85, Morehead City, NC 28557. FR 31(4)
[Weyerhaeuser Co. Technol. Cent., Tacoma, WA 98477] Cutthroat trout (*Salmo clarki*), juvenile steelhead trout (*S. gairdneri*), and juvenile coho salmon (*Oncorhynchus kisutch*) were sampled during the low-flow period of summer to compare population biomasses in western Washington streams flowing through old-growth forests with those in areas recently clearcut. In paired logged and unlogged sites, total salmonid biomasses averaged 1.5 times greater after logging than in adjacent unlogged sections. Among all sites (paired plus unpaired locations), total salmonid biomasses were 2.0 times greater, on average, in clearcuttings. Streams in logged watersheds contained higher percentages of age-0+ steelhead and age-0+ cutthroat trout, and lower percentages of age-0+ coho salmon and age-1+ and -2+ cutthroat, compared to streams in old-growth forests. Shifts in species and age composition were related to habitat changes that resulted from timber harvesting and debris removal from the channels. Large, stable organic debris declined and unstable debris increased after passage of forest practices legislation that mandated immediate debris removal following logging. Pool volumes decreased and riffle volumes increased after streambank disturbances and channel clearance, although the frequency (number per km) of both pools and riffles was lower in streams flowing through clearcut sites. Riffles in streams that underwent extensive debris removal were elongated and in many cases extended through former pool locations. Increases in the proportional abundance of underyearling steelhead and cutthroat trout after clearcutting is possibly explained by the preference of these fishes for riffle habitat, while the relative decline of coho and older cutthroat may have resulted from the loss of pool volume and large, stable debris for cover.

86-005379 Bjornn, T. C. THE TIMBER HARVEST-FISH PRODUCTION PROBLEM: ARE WE MAKING ANY PROGRESS? *IN W. R. Meehan, T. R. Merrell, Jr., and T. A. Hanley (eds.). Fish and Wildlife Relationships in Old-Growth Forests. (Am. Inst. Fish. Res. Biol.)* p. 5-7. 1984. Available @ $20.00 from J. W. Reintjes, Rt. 4, Box 85, Morehead City, NC 28557. FR 31(4)
[Idaho Coop. Fish. Res. Unit, Univ. Idaho, Moscow]

86-005380 Boytsov, M. P.; V. P. Gurov and Y. R. Nikanorov. COMPOSITION, ABUNDANCE AND GROWTH OF JUVENILE FISH IN A DREDGED AREA OF IVAN'KOVO RESERVOIR. *Hydrobiol. J. (Engl. Transl. Gidrobiol. Zh.)* 22(2):27-31. 1986. FR 31(4)
[GosNIORKh, Konakova, USSR]

86-005381 Bustard, D. R. QUEEN CHARLOTTE ISLANDS STREAM REHABILITATION STUDIES: A REVIEW OF POTENTIAL TECHNIQUES. *British Columbia Minist. For. Land Manage. Rep.* No. 28. vi+31p. 1984. FR 31(4)
[P.O. Box 2792, Smithers, BC V0J 2N0, Canada]

HABITAT ALTERATIONS (CONTINUED)

86-005382 Collins, K. D. and O. E. Maughan. SOME RELATIONS BETWEEN CLEARCUTTING AND WARM-WATER FISH POPULATIONS. *In: R. F. Wittwer (ed.). Proceedings of a Conference: Creating Good Wildlife Habitat Through Forest Management and Conservation.* p. 69-79. 1983. FR 31(4)
[Okla. Coop. Fish. Res. Unit, Okla. State Univ., Stillwater 74078]

86-005383 Crisp, D. T. EFFECTS OF IMPOUNDMENT AND REGULATION OF THE RIVER TEES AT COW GREEN (NORTHERN PENNINES, UK) UPON FISH POPULATIONS IN AFFERENT TRIBUTARIES AND IN THE RIVER IMMEDIATELY DOWNSTREAM OF THE DAM. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 42-51. In English with French summ. FR 31(4)

86-005384 Dadswell, M. J.; R. A. Rulifson and G. R. Daborn. POTENTIAL IMPACT OF LARGE-SCALE TIDAL POWER DEVELOPMENTS IN THE UPPER BAY OF FUNDY ON FISHERIES RESOURCES OF THE NORTHWEST ATLANTIC. *Fisheries (Bull. Am. Fish. Soc.)* 11(4):26-35. 1986. FR 31(4)
[Biol. Stn., St. Andrews, NB EOG 2XO, Canada]

86-005385 Davis, J. W. LIVESTOCK AND RIPARIAN HABITAT MANAGEMENT--WHY NOT? *Proc. Desert Fishes Counc.* 13-15:227-234. 1985. FR 31(4)

86-005386 Egglishaw, H. J. AFFORÈSTATION AND FISHERIES. *IN: J S. Alabaster, (ed.). Habitat MOdification and Freshwater Fisheries. FAO of the UN.* 1985. p. 236-244. In English with French summ. FR 31(4)

86-005387 Elliott, S. T. REDUCTION OF A DOLLY VARDEN POPULATION AND MACROBENTHOS AFTER REMOVAL OF LOGGING DEBRIS. *Trans. Am. Fish. Soc.* 115(3):392-400. 1986. FR 31(4)
[Alaska Dep. Fish Game, Div. Sport Fish., P.O. Box 20, Douglas, AK 99801]

86-005388 Ford, R. SUCKERS TO TROUT--EFFECT OF HABITAT RESTORATION ON FISH POPULATIONS IN RAPID CITY, SOUTH DAKOTA. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 133-136. 1985. FR 31(4)
[S.D. Dep. Game Fish Parks, Rapid City] A flood prevention project completed in 1978 severely altered an 825 yds. portion of Rapid Creek to a shallow channel, 32 yds. wide, in Rapid City, South Dakota. Subsequent agreement with the U.S. Army Corps of Engineers resulted in a stream rehabilitation project which used wing deflectors and rip-rap to restore the channel to a meandering 9 yds. wide channel. Fish population response was monitored annually using electrofishing gear. Brown trout *(Salmo trutta)* numbers increased 461%, while numbers of mountain suckers *(Catastomus platyrhynchus)* and white suckers *(C. commersoni)* decreased 86% and 55% respectively from 1978 to 1983.

86-005389 Gordon, W. G. NMFS AND ARMY CORPS OF ENGINEERES RESTORE FISHERIES HABITATS: A COOPERATIVE VENTURE. *Fisheries (Bull. Am. Fish. Soc.)* 11(5):2-7. 1986. FR 31(4)
[NMFS, 1825 Connecticut Ave., N.W., Washington, DC 20235]

86-005390 Hartman, G. F.; L. B. Holtby and J. C. Scrivener. SOME EFFECTS OF NATURAL AND LOGGING-RELATED WINTER STREAM TEMPERATURE CHANGES ON THE EARLY LIFE HISTORY OF COHO SALMON (*ONCORHYNCHUS KISUTCH*) IN CARNATION CREEK, BRITISH COLUMBIA. *IN W. R. Meehan; T. R. Merrell, Jr. and T. A. Handley (eds.). Fish and Wildlife Relationships in Old-Growth Forests. (Am. Inst. Fish. Res. Biol.)* p. 141-149. 1984. Available @ $20.00 from J. W.

HABITAT ALTERATIONS (CONTINUED)

86-005390 CONTINUED Reintjes, Rt. 4, Box 85, Morehead City, NC 28557. FR 31(4)
[Pac. Biol. Stn., Nanaimo, BC V9R 5K6, Canada] Carnation Creek is a small rain-forest stream located on Barkly Sound, Vancouver Island, British Columbia. It is the site of a 15-year watershed study concerned with the impact of logging on anadromous and resident salmonids. This paper deals with some of the effects of natural and logging-induced stream temperature changes in winter on juvenile coho salmon. Extensive logging began in the winter of 1976-77 and continued until 1980-81, by which time 41% of the watershed had been clearcut. Stream temperatures in early winter from 1976-77 through 1980-81 were higher than they had been prior to logging. Temperature increases resulted from climatic amelioration, which began in 1976, and from the effects of logging. As a result of higher temperatures, coho salmon fry emerged earlier in the spring than they had prior to logging. Early emergent fish that did not move downstream during spring freshets began growing sooner. In 1981, the year of highest winter temperatures, fry emerged 47 days earlier than in the prelogging years and this, coupled with faster growth in late spring, led to the fish entering their first winter at a larger size. Consequently, survival through the winter was greater, leading to increased numbers and size of 1-year smolts and an increased proportion of 1-year versus 2-year smolts. Brief speculation is offered about processes that have affected stream temperatures during winter.

86-005391 Hawkins, P. R. and D. J. Griffiths. LIGHT ATTENUATION IN A SMALL TROPICAL RESERVOIR (SOLOMON DAM, NORTH QUEENSLAND): SEASONAL CHANGES AND THE EFFECTS OF ARTIFICIAL AERATION. *Aust. J. Mar. Freshwater Res.* 37(2):199-208. 1986. FR 31(4)
[Botany Dep., James Cook Univ. North Queensland, Townsville, Qld. 4811, Australia]

86-005392 Holland, L. E. EFFECTS OF BARGE TRAFFIC ON DISTRIBUTION AND SURVIVAL OF ICHTHYOPLANKTON AND SMALL FISHES IN THE UPPER MISSISSIPPI RIVER. *Trans. Am. Fish. Soc.* 115(1):162-165. 1986. FR 31(4)
[U.S. FWS, P.O. Box 818, La Crosse, WI 54602]

86-005393 Jutila, E. DREDGING OF RAPIDS FOR TIMBER-FLOATING IN FINLAND AND ITS EFFECT ON RIVER-SPAWNING FISH STOCKS. *IN: J. S. Alabaster, (ed.). Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 104-108. In English with French summ. FR 31(4)

86-005394 Klassen, H. D. GABION EVALUATION FOR SALMONID ENHANCEMANT IN A LANDSLIDE IMPACTED STREAM ON THE QUEEN CHARLOTTE ISLANDS, BRITISH COLUMBIA. *British Columbia Minist. For. Land Manage. Rep.* No. 30. xi+94p. 1984. FR 31(4)
[Fish For. Interaction Proj., 2153 W. 46th Ave., Vancouver, BC V6M 2L2, Canada]

86-005395 Leonardson, L. ENERGY EXTRACTION FROM LAKE SEDIMENTS WITH HEAT EXCHANGERS. EFFECTS ON WATER QUALITY, SEDIMENT, BOTTOM FAUNA, AND FISH. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2249-2253. 1985. FR 31(4)

86-005396 Lestelle, L. C. and C. J. Cederholm. SHORT-TERM EFFECTS OF ORGANIC DEBRIS REMOVAL ON RESIDENT CUTTHROAT TROUT. *IN W. R. Meehan; T. R. Merrell, Jr. and T. A. Hanley (eds.). Fish and Wildlife Relationships in Old-Growth Forests. (Am. Inst. Fish. REs. Biol.)* p. 131-140. 1984. Available @ $20.00 from J. W. Reintjes, Rt. 4, Box 85, Morehead City, NC 28557. FR 31(4)
[Quinault Dep. Nat. Resour., Taholah, WA 98587] Excessive cleanup of logging residues along small streams can deplete the stream environment of large, stabilized organic debris. An experiment was conducted to determine

HABITAT ALTERATIONS (CONTINUED)

86-005396 CONTINUED the effects on a resident salmonid population of overcleaning a stream course of organic debris. The study was conducted in two headwater streams of the Clearwater River in Washington during 1972 and 1973. Clearing of the stream had little or no effect on numbers and biomass of cutthroat (*Salmo clarki clarki*) immediately after alteration and prior to winter. Subsequently, population reductions occurred in the treated stream over winter 1972-1973, but these losses were short-term. The decline in numbers of overwintering trout was apparently associated with habitat instability brought on by the removal of large organic debris from the stream channel. Within 1 year of debris removal, the cutthroat trout population has returned to pretreatment levels. Also the physical habitat characteristics of the altered stream were largely restored to pretreatment conditions within 1 year of debris removal. If there had not been a source of debris to replace that which was removed, habitat and fish recovery may have been slower.

86-005397 Linfield, R. S. J. THE EFFECT OF HABITAT MODIFICATION ON FRESHWATER FISHERIES IN LOWLAND AREAS OF EASTERN ENGLAND. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 147-156. In English with French summ. FR 31(4)

86-005398 McCarthy, D. T. THE ADVERSE EFFECTS OF CHANNELIZATION AND THEIR AMELIORATION. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 83-97. In English with French summ. FR 31(4)

86-005399 McGrath, C. J. THE ROLE OF THE FISHERIES ENGINEER IN THE DESIGN AND EXECUTION OF ARTERIAL DRAINAGE SCHEMES. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 98-103. In English with French summ. FR 31(4)

86-005400 Modde, T.; H. G. Drewes and M. A. Rumble. EFFECTS OF WATERSHED ALTERATION ON THE BROOK TROUT POPULATION OF A SMALL BLACK HILLS STREAM. *Great Basin Nat.* 46(1):39-45. 1986. FR 31(4)
[Dep. Wildl. Fish. Sci. Box 2206, Brookings, SD 57007]

86-005401 Murphy, M. L.; J. Heifetz; S. W. Johnson; K. V. Koski and J. F. Thedinga. EFFECTS OF CLEAR-CUT LOGGING WITH AND WITHOUT BUFFER STRIPS ON JUVENILE SALMONIDS IN ALASKAN STREAMS. *Can. J. Fish. Aquatic. Sci.* 43(8): 1521-1533. 1986. In English with French summ. FR 31(4)
[NMFS, P.O. Box 210155, Auke Bay, AK 99821]

86-005402 Myren, T. T. and R. J. Ellis. EVAPOTRANSPIRATION IN FOREST SUCCESSION AND LONG-TERM EFFECTS UPON FISHERY RESOURCES: A CONSIDERATION FOR MANAGEMENT OF OLD-GROWTH FORESTS. *IN W. R. Meehan; T. A. Merrell, Jr. and T. A. Hanley (eds.). (Am. Inst. Fish. Res. Biol.).* p. 183-186. 1984. Available @ $20.00 From J. W. Reintjes, Rt. 4, Box 85, Morehead City, NC 28557. FR 31(4)
[Box 1024, Lanai, HI 96763] Evapotranspiraton of rapidly growing forests may markedly reduce the minimum streamflows during the summer. In many streams of southeast Alaska, the minimum summer streamflows limit spawning success of pink and chum salmon and may limit the habitat of species such as coho salmon that rear in streams. Extrapolating from the literature leads to the conclusion that converting significant portions of old-growth watershed to rapidly growing second-growth forest risks permanently reducing summer low flows of the streams and, thus their ability to produce salmon. It is recommended that this risk be considered in managing the forests and that effects on streamflow of converting old-growth forests to second-growth forests be included in studies of logging in southeast Alaska.

HABITAT ALTERATIONS (CONTINUED)

86-005403 Pennington, C. H., S. S. Knight and M. P. Farrell. RESPONSE OF FISHES TO REVETMENT PLACEMENT. *Proc. Ark. Acad. Sci.* 39:95-97. 1985. FR 31(4)
[ACE, Waterways Exp. Stn., P.O. Box 631, Vicksburg, MS 39180]

86-005404 Pollard, J. E.; S. M. Melancon and L. S. Blakey. IMPORTANCE OF BOTTOMLAND HARDWOODS TO CRAWFISH AND FISH IN THE HENDERSON LAKE AREA, ATCHAFALAYA BASIN, LOUISIANA. *Wetlands* 3:1-25. 1983. FR 31(4)
[Dep. Biol. Sci., Univ. Nev., 4505 Maryland Parkway, Las Vegas 89154]

86-005405 Poulin, V. A. AN APPROACH TO SOLVING CONFLICTS RELATED TO FISH AND OLD-GROWTH LOGGING ON THE QUEEN CHARLOTTE ISLANDS, BRITISH COLUMBIA. N W. R. Meehan; T. R. Merrell, Jr. and T. A. Hanley (eds.). Fish and Wildlife Relationships in Old-Growth Forests. (Am. Inst. Fish. Res. Biol.) p. 167-174. 1984. Available @ $20.00 from J. W. Reintjes, Rt. 4, Box 85, Morehead City, NC 28557. FR 31(4)
[Fish/Forestry Interaction Prog., 2153 W. 46th Ave., Vancouver, BC V6M 2L2, Canada]

86-005406 Reynolds, J. B. LAND DEVELOPMENT IN THE CHENA RIVER WATERSHED. *Alaska Sci. Conf.* 36:139. 1985. Abstract only. FR 31(4)
[Alaska Coop. Fish. Res. Unit, Univ. Alaska, Fairbanks 99775-0110]

86-005407 Rivier, B. and J. Seguier. PHYSICAL AND BIOLOGICAL EFFECTS OF GRAVEL EXTRACTION IN RIVER BEDS. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 131-146. In Enlgish with French summ. FR 31(4)

86-005408 Rogers, A. and A. Cane. EFFECTS ON SALMONID POPULATIONS OF ISOLATION OF A LAKE FROM A RIVER SYSTEM. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 159-164. In English with French summ. FR 31(4)

86-005409 Sakaki, N. and T. Okamoto. FREE FALLING INSTALLATION TEST OF ARTIFICIAL STEEL REEF. *In: W. Kato, (ed.). Ocean Space Utilization '85: Proc. Int. Symp. Nihon Univ.* Vol. 2. 1985. p. 497-503. FR 31(4)
[Civil Eng. Lab., Struc. Res. Dep., Tech. Res. Cent., Nippon Kokan K.K., Minami-Watarida, Kawasaki, 210 Japan]

86-005410 Samuelson, C. E. LOGGING AND FISH HABITAT--PRELIMINARY REVIEW OF THE RESULTS OF A LONG-TERM STUDY OF FIVE STREAMS IN THE OLYMPIC PENINSULA, WASHINGTON. *IN W. R. Meehan; T. R. Merrell, Jr. and T. A. Hanley (eds.). Fish and Wildlife Relationships in Old-Growth Forests. (Am. Inst. Fish. Res. Biol.)*. p. 151. 1984. Available @ $20.00 from J. W. Reintjes, Rt. 4, Box 85, Morehead City, NC 28557. Abstract only. FR 31(4)
[ITT Rayonier Inc., Shelton, WA] Effects of logging on fisheries habitat in five small watersheds on the Olympic Peninsula were studied from 1972 to 1979. Studies were designated to represent current logging practices in an old-growth forest. Areas were harvested under the requirements of "best management practices" within the guidelines of Washington State Forest Practices Act. Sampling was conducted during summer low streamflow periods from June to September. Each area was studied for a minimum of three summers before and three summers after logging. Uncut areas located upstream were sampled throughout the study. The study was designed primarily as a fish-habitat investigation. Physical parameters studied included composition of spawning gravel and characteristics of stream temperature. Stream dimensions and flows were monitored to support other parameters. Chemical measurements

HABITAT ALTERATIONS (CONTINUED)

86-005410 CONTINUED included dissolved oxygen (DO), subgravel dissolved oxygen, conductivity, color, pH, and turbidity. Biological monitoring included riffle benthos and fish populations. Although analyses of data are continuing, the following findings are indicated: 1. Effects on fish populations are not apparent. Where fish biomass or composition changes occur, parallel changes are seen in upstream controls. 2. There is an overall trend for increased biomass of riffle benthos. 3. Composition of riffle benthos is generally unchanged, but further analyses are required. 4. Effects on fines (<0.83mm) in spawning gravel varied. Small increases measured in one stream are not considered to be of a magnitude that should affect fish production. 5. Mean, absolute maximum, and diurnal fluctuations of water temperature increased after logging and will probably persist for several years. 6. Data suggest that other water parameters (including subgravel DO) have not greatly changed. 7. Logging that is properly conducted and supervised within the constraints of present environmental guidelines is compatible with fisheries production in small headwater streams in western Washington.

86-005411 Scott, J. B.; C. R. Steward and Q. J. Stober. EFFECTS OF URBAN DEVELOPMENT ON FISH POPULATION DYNAMICS IN KELSEY CREEK, WASHINGTON. *Trans. Am. Fish. Soc.* 115(4):555-567. 1986. FR 31(4)
[Northwest Indian Fish. Comm., 6730 Marten Way East, Olympia, WA 98506]

86-005412 Sheridan, W. L.; M. P. Perensovich and T. Faris. SEDIMENT CONTENT OF STREAMBED GRAVELS IN SOME PINK SALMON SPAWNING STREAMS IN ALASKA. *IN W. R. Meehan; T. R. Merrell, Jr. and T. A. Hanley (eds.). Fish and Wildlife Relationships in Old-Growth Forests. (Am. Inst. Fish. Res. Biol.).* p. 153-165. 1984. Available @ $20.00 from J. W. Reintjes, Rt. 4, Box 85, Morehead City, NC 28557. FR 31(4)
[Box 368, Juneau, AK 99802] Composition of gravel was measured in selected pink salmon spawning riffles in several streams in southeast Alaska, one stream in Prince William Sound, during the period 1963-1971. Over 2,000 streambed samples were analyzed for fine particulate matter. The point measurement, percent <0.83 mm in diameter, was used throughout. There was good agreement between percent <0.83 and the "fredle index," and between results of analyzing gravel samples by the volumetric (wet) method and gravimetric (dry) method. The mean percent particle size <0.83 mm for 18 streams was 8.9. Seperation of streams in logged watersheds from those in unlogged watersheds resulted in means of 9.1 percent for streams in logged drainages and 7.1 percent for streams in unlogged watersheds, but tests with a nested Ananysis of Variance showed no significant difference in percent fines <0.83 between six streams in logged watersheds and six streams in unlogged watersheds. Test for differences between sediment levels sampled during different seasons showed significant differences in some cases, and none in others.

86-005413 Sparrowe, R. D. THREATS TO PADDLEFISH HABITAT. *North Cent. Div. Am. Fish. Soc. Spec. Publ.* No. 7. p.36-45. 1986. Available at $9.00 ($11.00 Foreign) from Joe G. Dillard, 1110 College Ave., Columbia, Mo 65201. FR 31(4)
[U.S.FWS, Washington, DC 20240]

86-005414 Spillett, P. B.; G. S. Armstrong and P. A. G. Mcgrath. AMELIORATIVE METHODS TO REINSTATE FISHERIES FOLLOWING LAND DRAINAGE OPERATIONS. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 124-130. In English with French summ. FR 31(4)

86-005415 Teubert, B. D. CHANGES IN THE TROUT FISHERIES OF THE LOWER COLORADO RIVER AND ARIZONA. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 175-180. 1985. FR 31(4)
[Ariz. Game Fish Dep., 2222 W. Greenway Rd., Phoenix, AZ]

HABITAT ALTERATIONS (CONTINUED)

86-005416 Tuunainen, P.; K. Westman; O. Heikinheimo-Schmid; M. Pursiainen and K. Salojarvi. [THE 13TH SESSION OF THE EUROPEAN INLAND FISHERIES ADVISORY COMMISSION (EIFAC) AND THE SYMPOSIUM ON HABITAT MODIFICATION AND FRESHWATER FISHERIES.] *Tiedonantoja* No. 23. 33-51. 1985. In Swedish. FR 31(4)

86-005417 Unkenholz, D. G. EFFECTS OF DAMS AND OTHER HABITAT ALTERATIONS ON PADDLEFISH SPORT FISHERIES. *North Cent. Div. Am. Fish. Soc. Spec. Publ.* No. 7. p.54-61. 1986. Available at $9.00 ($11.00 Foreign) from Joe G. Dillard, 1110 College Ave., Columbia, MO 65201. FR 31(4)
[S.D. Dep. Game Fish Parks, Pierre 57501]

86-005418 Volovik, S. P. CHANGES IN THE ECOSYSTEM OF THE AZOV SEA IN RELATION TO ECONOMIC DEVELOPMENT IN THE BASIN. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):1-15. 1986. FR 31(4)
[AzNIIRKH, Rostov-on-Don, USSR]

86-005419 Ward, G. M. and N. G. Aumen. WOODY DEBRIS AS A SOURCE OF FINE PARTICULATE ORGANIC MATTER IN CONIFEROUS FOREST STREAM ECOSYSTEMS. *Can. J. Fish. Aquatic Sci.* 43(8):1635-1642. 1986. In English with French summ. FR 31(4)
[Aquatic Biol. Prog., Dep. Biol., Univ. Ala., University 35486]

86-005420 Westman, K. EFFECTS OF HABITAT MODIFICATION ON FRESHWATER CRAYFISH. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 245-255. In English with French summ. FR 31(4)

86-005421 Wilzbach, M. A. and K. W. Cummins. INFLUENCE OF HABITAT MANIPULATIONS ON INTERACTIONS BETWEEN CUTTHROAT TROUT AND INBERTEBRATE DRIFT. *Ecology* 67(4):898-911. 1986. FR 31(4)
[Cent. Environ. Estuarine Stud., Appl. Environ. Lab., Univ. Md., Frostburg 21532]

HARVEST, CREEL CENSUS, ETC.

86-005422 Aggus, L. R.; G. R. Ploskey and R. M. Jenkins. SURVEY OF STATE SAMPLING METHODS TO IDENTIFY NEW REGIONAL OR NATIONAL DATA BASES ON RESERVOIR FISHERY RESOURCES. *Great Lakes Fish. Lab. Admin. Rep.* No.86-4. 37p. 1986. FR 31(4)
[U.S.FWS, Great Lakes Fish. Lab., 1451 Green Rd., Ann Arbor, MI 48105]

86-005423 Anderson, R. S.; C. J. Schwinden and J. A. Leitch. REGIONAL ECONOMIC IMPACT OF THE DEVILS LAKE FISHERY. *Fisheries (Bull. Am. Fish. Soc.)* 11(5):14-17. 1986. FR 31(4)
[Wash. Sea Grant Prog., Wash. State Univ., 1919 N.E. 78th St., Vancouver 98665]

86-005424 Battaglene, S. C. A CREEL SURVEY OF THE LAKE KEEPIT RECREATIONAL FISHERY. *Aust. Zool.* 21(6-7):565-578. 1985. FR 31(4)
[N.S.W. Dep. Agric., Div. Fish., P.O. Box 21, Cronulla, NSW 2230, Australia]

HARVEST, CREEL CENSUS, ETC. (CONTINUED)

86-005425 Brusher, H. A. and B. J. Palko. CHARTERBOAT CATCH AND EFFORT FROM SOUTHEASTERN U.S. WATERS, 1983. *Mar. Fish. Rev.* 47(3):54-66. 1985. FR 31(4)
[NMFS, 3500 Delwood Beach Rd., Panama City, FL 32407-7499]

86-005426 FAO of the UN. YEARBOOK OF FISHERY STATISTICS. *FAO Fish. Ser.* 26. vii+309p. 1986. In English, French and Spanish. FR 31(4)
[Rome, Italy]

86-005427 Graefe, A. R. and R. B. Ditton. BAY AND OFFSHORE FISHING IN THE GALVESTON BAY AREA: A COMPARATIVE STUDY OF FISHING PATTERNS, FISHERMEN CHARACTERISTICS, AND EXPENDITURES. *N. Am. J. Fish. Manage.* 6(2):192-199. 1986. FR 31(4)
[Dep. Recreation Parks, Pa. State Univ., University Park 16803]

86-005428 Holts, D. RECREATIONAL ALBACORE, *THUNNUS ALALUNGA*, FISHERY BY U.S. WEST COAST COMMERCIAL PASSENGER FISHING VESSELS. *Mar. Fish. Rev.* 47(3):48-53. 1985. FR 31(4)
[NMFS, P.O. Box 271, La Jolla, CA 92038]

86-005429 Jameson, R. THE ECONOMIC VALUE OF OKLAHOMA'S FISH AND WILDLIFE RESOURCES. *In: R. F. Wittwer (ed.). Proceedings of a Conference: Creating Good Wildlife Habitat Through Forest Management and Conservation.* p. 37-41. 1983. FR 31(4)

86-005430 Jubenville, A. and D. Snarski. RECREATIONAL USE OF THE CHENA RIVER. *Alaska Sci. Conf.* 36:138. 1985. Abstract only. FR 31(4)
[Sch. Agric. Land Resour. Manage., Univ. Alaska, Fairbanks 99775]

86-005431 Lesack, L. F. W. ESTIMATES OF CATCH AND POTENTIAL YIELD FOR THE RIVERINE ARTISANAL FISHERY IN THE GAMBIA, WEST AFRICA. *J. Fish Biol.* 28(6):679-700. 1986. FR 31(4)
[Dep. Biol. Sci., Univ. Calif., Santa Barbara 93106]

86-005432 Matlock, G. C. ESTIMATE OF THE NUMBER OF RED DRUM ANGLERS IN TEXAS. *N. Am. J. Fish. Manage.* 6(2):292-294. 1986. FR 31(4)
[Tex. Parks Wildl. Div., 4200 Smith School Rd., Austin 78744]

86-005433 Minervini, R.; M. Giannotta and M. L. Bianchini. OBSERVATIONS ON THE FISHERY OF *RAJFORMES* IN CENTRAL TYRRHENIAN SEA. *Oebalia* 11(2): 583-591. 1985. In English with Italian summ. FR 31(4)
[Coop. Idrobiol., Pesca Acquacolt., Rome, Italy]

86-005434 Mutenia, A. FISH STOCKS AND FISHING IN THE LOKKA AND PORTTIPAHTA RESERVOIRS, NORTHERN FINLAND. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 195-201. In English with French summ. FR 31(4)

86-005435 Nesler, T. P. PREDICTION OF ICE-FISHING HARVEST OF QUALITY-SIZE LAKE TROUT FROM PREVIOUS GILL-NET SAMPLING. *N. Am. J. Fish. Mange.* 6(2): 277-281. 1986. FR 31(4)
[Colo. Div. Wildl., 317 West Prospect, Fort Collins 80526]

86-005436 Parmanne, R. and V. Sjoblom. FINNISH HERRING FISHERY IN THE GULF OF FINLAND IN 1977-83. *Finn. Fish. Res.* No. 6. p. 15-19. 1985. FR 31(4)

HARVEST, CREEL CENSUS, ETC. (CONTINUED)

86-005436 CONTINUED
[Finn. Game Fish. Res. Inst., Fish. Div., P.O. Box 193, SF-00131 Helsinki, Finland]

86-005437 Reavis, R. L., Jr. AN EVALUATION OF THE FOLSOM LAKE KOKANEE FISHERY, 1974-1976. *Calif. Dep. Fish Game Inland Fish. Admin. Rep.* No. 82-4. 16p. 1982. FR 31(4)

86-005438 Rohrer, R. L. CREEL SURVEYS FROM A KAYAK ON THE HENRY'S FORK OF THE SNAKE RIVER, IDAHO. *N. Am. J. Fish. Manage.* 6(2):294-295. 1986. FR 31(4)
[Idaho Dep. Fish Game, 109 W. 44th St., Boise 83714]

86-005439 Shiota, P. M. and R. N. Uchida. CURRENT TRENDS IN HAWAIIAN FISHERIES. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 2. p. 352. 1984. Abstract only. FR 31(4)
[NMFS, P.O. Box 3830, Honolulu, HI 96812]

86-005440 Sorg, C. F.; D. M. Donnelly; J. B. Loomis and G. L. Peterson. IMPLICATIONS OF ECONOMICS AS APPLIED TO WILD TROUT FISHERIES MANAGEMENT IN IDAHO. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 187-191. 1985. FR 31(4)
[USDA For. Serv., Rocky Mtn. For. Range Exp. Stn., Fort Collins 80526]

86-005441 Sorg, C. F.; J. B. Loomis; D. M. Donnelly; G. L. Peterson and L. J. Nelson. NET ECONOMIC VALUE OF COLD AND WARM WATER FISHING IN IDAHO. *U.S.D.A For. Serv. Resour. Bull.* RM-11. 26p. 1985. FR 31(4)
[Rocky Mtn. For. Range Exp. Stn., 240 W. Prospect, Fort Collins, CO 80525]

REGULATIONS

86-005442 Barnhart, G. A. and R. Engstrom-Heg. A SYNOPSIS OF SOME NEW YORK EXPERIENCES WITH CATCH AND RELEASE MANAGEMENT OF WILD SALMONIDS. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 91-101. 1985. FR 31(4)
[N.Y. State Dep. Environ. Conserv., Albany] Catch and release regulations are an effective tool for accomplishing a variety of wild salmonid management objectives in New York. Absolute or partial harvest restrictions have been successfully employed to: 1) increase angler catch rates of wild brown, rainbow and lake trout; 2) reduce need for stocking to maintain acceptable stream brown trout and lake trout fisheries; 3) restore or enhance wild brown trout, rainbow and lake trout populations; and 4) in limited instances, increase the maximum size, abundance and catch rate of large stream trout. Attainment of these objectives has typically been at a cost in take-home yeild, but size limit protection has frequently produced increased yields. Implementation of catch and release regulations has typically caused short-term depression in angler use followed by partial or complete recovery within several years. Neither lack of angler compliance nor hooking mortality have precluded attainment of catch and release objectives. Short and long-term impacts of harvest restrictions have frequently been different and distinct. Evaluation schemes for catch and release management programs should include several years of post-implementation monitoring.

86-005443 Baughman, J. CATCH-AND-RELEASE MAY BE THE ANSWER--NOW, WHAT WAS THE QUESTION? *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 102-104. 1985. FR 31(4)
[Wyo. Game Fish Dep., Cheyenne 82002]

REGULATIONS (CONTINUED)

86-005444 Clark, R. D., Jr. and G. R. Alexander. EFFECTS OF SLOTTED SIZE LIMIT ON THE BROWN TROUT FISHERY, AU SABLE RIVER, MICHIGAN. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 74-84. 1985. FR 31(4)
[Inst. Fish. Res., Mich. Dep. Nat. Resour., Ann Arbor 48109] Fishing regulations for brown trout were changed from a 12-inch minimum to a slotted size limit. The slotted limit allowed harvest of trout between 8 and 12 inches and over 16 inches. Abundance of brown trout smaller than 8 inches decreased by 8%, abundance of 8- to 12-inch brown trout decreased by 32%, and abundance of brown trout over 12 inches decreased by 47%. Growth rate did not change significantly. Annual fishing mortality rate between ages 2 and 3 increased from near zero to about 30%, and this reduced the number of fish surviving to older ages and larger sizes. However, unfavorable changes in environmental conditions contributed to decreases in abundance also. Total numerical harvest of brown trout increased nearly five times but consisted of smaller fish. Fishing pressure probably increased somewhat, but the increase in harvest was due primarily to the change in size limits. Voluntary release of legal-sized trout appeared to increase independent of our regulations. We concluded that the greatest effect of the slotted limit was in reshaping man's use of the trout populations. Biological effects were comparatively unimportant, except for their influence on satisfying desires of different factions within the angling community.

86-005445 Combs, D. L. THE ROLE OF REGULATIONS IN MANAGING PADDLEFISH POPULATIONS. *North Cent. Div. Am. Fish. Soc. Spec. Publ.* No. 7. p.68-76. 1986. Available at $9.00 ($11.00 Foreign) from Joe G. Dillard, 1110 College Ave., Columbia, MO 65201. FR 31(4)
[U.S. Army Corps Eng., P.O. Box 619, Tulsa, OK 74121]

86-005446 Illing. LEGAL ASPECTS OF REGULATORY PROBLEMS IN THE NATIONAL FRAMEWORK. *In: Experiences in the Management of National Fishing Zones. OECD, Paris.* p. 65-75. 1984. FR 31(4)
[Minist. Food, Agric. For., Bonn, West Germany]

86-005447 Jones, R. D. TEN YEARS OF CATCH-AND-RELEASE IN YELLOWSTONE PARK. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 105-108. 1985. FR 31(4)
[U.S. FWS, Yellowstone Natl. Park, Mammoth, WY]

86-005448 Knowles and Hus. QUOTA MANAGEMENT'S DEPENDENCE ON DATA: CANADA'S EXPERIENCE IN KEEPING INFORMATION SYSTEMS UP-TO-DATE. *In: Experiences in the Management of National Fishing Zones. OECD, Paris.* p. 52-64. 1984. FR 31(4)
[Econ. Policy Br., Dep. Fish. Oceans, Ottawa, ON, Canada]

86-005449 Munro. FISHERIES ENFORCEMENT: THE UNITED KINGDOM EXPERIENCE. *In: Experiences in the Management of National Fishing Zones. OECD, Paris.* p. 39-51. 1984. FR 31(4)
[Dep. Agric. Fish., Edinburgh, Scotland]

86-005450 Nehring, R. B. and R. Anderson. CATCH AND RELEASE MANAGEMENT IN COLORADO--WHAT WORKS? HOW, WHEN, WHERE, WHY? *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 109-112. 1985. FR 31(4)
[Colo. Div. Wildl., Montrose]

86-005451 Prat. REGULATION OF FISHERIES IN THE SPANISH MEDITERRANEAN AS AN EXAMPLE OF COORDINATED MANAGEMENT BETWEEN GOVERNMENT, THE FISHERIES SECTOR AND RESEARCH. *In: Experiences in the Management of National Fishing*

REGULATIONS (CONTINUED)

86-005451 CONTINUED *Zones. OECD, Paris.* p. 76-80. 1984. FR 31(4)
[Minist. Agric. Fish., Madrid, Spain]

86-005452 Seehorn, M. E. SPECIAL FISHING REGULATIONS--SOUTHEASTERN STYLE. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 115-121. 1985. FR 31(4)
[USDA For. Serv., Atlanta, GA]

86-005453 Snider, W. M. and D. C. McKee. THE RESPONSE OF A BAIT ANGLER DOMINATED TROUT FISHERY TO CATCH-AND-RELEASE ORIENTED ANGLING REGULATIONS. *Calif. Dep. Fish Game Inland Fisheries Admin. Rep.* No. 82-8. 21p. 1982. FR 31(4)
[Dep. Biol. Sci., Univ. Nev., 4505 Maryland Parkway, Las Vegas 89154]

86-005454 Wells, J. RESTRICTIVE REGULATIONS--THE MONTANA EXPERIENCE. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 113-114. 1985. FR 31(4)
[Mont. Dep. Fish Wildl. Parks, Bozeman]

FISH CONTROL AND REMOVAL

86-005455 Kirk, J. P.; W. D. Davies and K. Park. RESPONSE OF SOME MEMBERS OF THE FISH COMMUNITY TO GIZZARD SHAD REMOVAL FROM CHAMBERS COUNTY PUBLIC FISHING LAKE, ALABAMA. *N. Am. J. Fish. Manage.* 6(2):252-255. 1986. FR 31(4)
[S.C. Wildl. Mar. Resour. Dep., Columbia 29202]

MARKING AND TAGGING

86-005456 Carmichael, G. J.; J. H. Williamson; M. E. Schmidt and D. C. Morizot. GENETIC MARKER IDENTIFICATION IN LARGEMOUTH BASS WITH ELECTROPHORESIS OF LOW-RISK TISSUES. *Trans. Am. Fish. Soc.* 115(3):455-459. 1986. FR 31(4)
[U.S. FWS, Rt. 1, Box 159-D, San Marcos, TX 78666]

86-005457 Elrod, J. H. and C. P. Schneider. EVALUATION OF CODED WIRE TAGS FOR MARKING LAKE TROUT. *N. Am. J. Fish. Manage.* 6(2):264-271. 1986. FR 31(4)
[Cape Vincent Fish. Stn., P.O. Box 292, Cape Vincent, NY 13618]

86-005458 Evtukh, P. S. and V. L. Baturin. ON THE ACCURACY OF DETECTION OF SONIC TAGS. *In: Investigations for Optimization of Fisheries and Perfection of Fishing Gear. VNIRO, Moscow, USSR.* 1985. p.154-163. FR 31(4)

86-005459 Hert, E. FREEZE BRANDING IN FISH, A METHOD FOR ELIMINATIONG COLOUR PATTERNS AT THE SKIN SURFACE. *Ethology* 72(2):165-167. 1986. FR 31(4)
[Max-Planck-Inst. Verhaltensphysiologie, D-8131 Seewiesen, West Germany]

MARKING AND TAGGING (CONTINUED)

86-005460 Koenings, J. P.; J. Lipton and P. McKay. QUANTITATIVE DETERMINATION OF OXYTETRACYCLINE UPTAKE AND RELEASE BY JUVENILE SOCKEYE SALMON. *Trans. Am. Fish. Soc.* 115(4):621-629. 1986. FR 31(4)
[Alaska Dep. Fish. Game, Div. Fish. Rehab. Enhance. Dev., P.O. Box 3150, Soldotna 99669]

86-005461 MacKenzie, K. THE USE OF PARASITES AS BIOLOGICAL TAGS IN POPULATION STUDIES OF HERRING (*CLUPEA HARENGUS* L.) IN THE NORTH SEA AND TO THE NORTH AND WEST OF SCOTLAND. *J. Cons. Cons. Int. Explor. Mer* 42(1):33-64. 1985. FR 31(4)
[Kuwait Inst. Sci. Res., P.O. Box 24885, Kuwait]

86-005462 Marty, G. D. and R. C. Summerfelt. PATHWAYS AND MECHANISMS FOR EXPULSION OF SURGICALLY IMPLANTED DUMMY TRANSMITTERS FROM CHANNEL CATFISH. *Trans. Am. Fish. Soc.* 115(4):577-589. 1986. FR 31(4)
[Dep. Anim. Ecol., Iowa State Univ., Ames 50011]

86-005463 Pollock, B. R. EFFECTS OF CAPTURE INJURY AND TAG-TYPE ON THE RECOVERY RATE OF TAGGED TAILOR, *POMATOMUS SALTRIX* (LINNAEUS). *Queensl. J. Agric. Anim. Sci.* 41(2):121-123. 1984. FR 31(4)
[Fish. Manage. Br., Queensl. Dep. Primary Indus., Comalco House, Brisbane, Qld. 4000, Australia]

86-005464 Seeb, J. E.; L. W. Seeb and F. M. Utter. USE OF GENETIC MARKS TO ASSESS STOCK DYNAMICS AND MANAGEMENT PROGRAMS FOR CHUM SALMON. *Trans. Am. Fish. Soc.* 115(3):448-454. 1986. FR 31(4)
[Dep. Zool., Wash. State Univ., Pullman 99164]

86-005465 Williamson, J. H.; G. J. Carmichael; M. E. Schmidt and D. C. Morizot. NEW BIOCHEMICAL GENETIC MARKERS FOR LARGEMOUTH BASS. *Trans. Am. Fish. Soc.* 115(3):460-465. 1986. FR 31(4)
[U.S. FWS, Rt. 1, Box 159-D, San Marcos, TX 78666]

STOCKING AND INTRODUCTIONS

86-005466 Balon, E. K. and M. N. Bruton. INTRODUCTION OF ALIEN SPECIES OR WHY SCIENTIFIC ADVICE IS NOT HEEDED. *Environ. Biol. Fishes* 16(4): 225-230. 1986. FR 31(4)
[Dep. Zool., Group Adv. Fish Stud., Univ. Guelph, Guelph, ON NIG 2W1, Canada]

86-005467 Brunson, M. W. and H. R. Robinette. EVALUATION OF MALE BLUEGILL X FEMALE GREEN SUNFISH HYBRIDS FOR STOCKING MISSISSIPPI FARM PONDS. *N. Am. J. Fish. Manage.* 6(2):156-167. 1986. FR 31(4)
[Rice Res. Stn., Agric. Exp. Stn., La. State Univ. Agric. Cent., P.O. Box 1429, Crowley, LA 70527]

86-005468 Deinstadt, J. M. STATUS OF THE CALIFORNIA WILD TROUT AND CATCH AND RELEASE ANGLING PROGRAMS. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 69-73. 1985. FR 31(4)
[Calif. Dep. Fish Game, Rancho Cordova, CA]

STOCKING AND INTRODUCTIONS (CONTINUED)

86-005469 Furst, M.; J. Hammar and C. Hill. THE INTRODUCTION OF *MYSIS RELICTA* IN SWEDEN: EFFECTS ON FISH IN IMPOUNDED LAKES. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 202-206. In English with French summ. FR 31(4)

86-005470 Gerdeaux, D. and P. Dewaele. EFFECTS OF THE WEATHER AND OF ARTIFICAL PROPAGATION ON COREGONID CATCHES IN LAKE GENEVA. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:343-352. 1986. FR 31(4)
[Inst. Limnol., 75 Ave. de Corzent, B. P. 11 F, 74200 Thonon-les-Bains, France]

86-005471 Gowing, H. SURVIVAL AND GROWTH OF MATCHED PLANTINGS OF ASSINICA STRAIN BROOK TROUT AND HYBRID BROOK TROUT (ASSINICA MALE X DOMESTIC FEMALE) IN SIX SMALL MICHIGAN LAKES. *N. Am. J. Fish. Manage.* 6(2):242-251. 1986. FR 31(4)
[Mich. Dep. Nat. Resour., Rt. 2, Box 2299, Lewiston 49756]

86-005472 Graham, L. K. ESTABLISHING AND MAINTAINING PADDLEFISH POPULATIONS BY STOCKING. *North Cent. Div. Am. Fish. Soc. Spec. Publ.* No.7. p.96-104. 1986. Available at $9.00 ($11.00 Foreign) from Joe G. Dillard, 1110 College Ave., Columbia, MO 65201. FR 31(4)
[Mo. Dep. Conserv., Columbia 65201]

86-005473 Halliwell, N. IN DEFENCE OF AQUARIUM FISH ENTHUSIASTS. *Search* 17(5-6):153-154. 1986. FR 31(4)
[Pet Indus. Advis. Counc., Campsie, N.S.W. 2194, Australia]

86-005474 Hemmingsen, A. R.; R. G. Sheldon and R. D. Ewing. COMPARISON OF ADULT RETURNS TO A HATCHERY FROM SUBYEARLING AND YEARLING COHO SALMON RELEASED AT SIMILAR SIZES AND DIFFERENT TIMES. *N. Am. J. Fish. Manage.* 6(2):204-208. 1986. FR 31(4)
[Oreg. Dep. Fish Wildl., 303 Extension Hall, Oreg. State Univ., Corvallis 97331]

86-005475 Holcik, J. [FISH INTRODUCTION AND INLAND FISHERIES.] *Prace Lab. Ryb. Hydrobiol.* 5:231-243. 1985. In Czech with English summ. FR 31(4)
[Lab. Ryb. Hydrobiol., Drienova 3, 826 24 Bratislava, Czechoslovakia]

86-005476 Johnson, J. E. REINTRODUCING THE NATIVES: RAZORBACK SUCKER. *Proc. Desert Fishes Counc.* 13-15:73-79. 1985. FR 31(4)

86-005477 Kepner, W. G. and J. E. Brooks. INTRODUCTION OF GILA TOPMINNOW AND DESERT PUPFISH ON PUBLIC LANDS IN ARIZONA. *Proc. Desert Fishes Counc.* 13-15:294. 1985. Abstract only. In English and Spanish. FR 31(4)

86-005478 Luczynski, M. REVIEW ON THE BIOLOGY, EXPLOITATION, REARING AND MANAGEMENT OF COREGONID FISHES IN POLAND. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:115-140. 1986. FR 31(4)
[Chair Fish., Acad. Agric. Technol., 10-957 Olsztyn 5, Kortowo, Poland]

86-005479 Meng, H. J.; R. Muller and W. Geiger. GROWTH MORTALITY AND YIELD OF STOCKED COREGONID FINGERLINGS IDENTIFIED BY MICROTAGS. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:319-325. 1986. In English with German

STOCKING AND INTRODUCTIONS (CONTINUED)

86-005479 CONTINUED summ. FR 31(4)
[Lake Res. Lab., E.A.W.A.G., CH-6047 Kastanienbaum, Switzerland]

86-005480 Mettee, M. F.; C. S. Lawson and J. J. Pulliam. RARE FISH RETURNED HOME AFTER 45 YEARS. *Ala. Conserv.* 56(5):6,14. 1986. FR 31(4)

86-005481 Petr, T. INDIGENOUS FISH AND STOCKING OF LAKES AND RESERVOIRS ON TROPICAL ISLANDS OF THE INDO-PACIFIC. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2680-2683. 1983. FR 31(4)

86-005482 Petrosky, C. E. and T. C. Bjornn. COMPETITION FROM CATCHABLES--A SECOND LOOK. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 63-68. 1985. FR 31(4)
[Idaho Coop. Fish. Res. Unit, Univ. Idaho, Moscow] Competition from stocked catchable-size trout was not severe, and occurred only at high stocking densities. The highest stocking densities temporarily increased rainbow trout mortality in one stream and decreased cutthróat trout abundance in another. Stocking densities in Idaho generally average less than experimental densities where competition occurred.

86-005483 Salojarvi, K. REVIEW OF WHITEFISH (*COREGONUS LAVARETUS* L. s.l.) FINGERLING REARING AND STOCKING IN FINLAND. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:99-114. 1986. In English with German summ. FR 31(4)
[Finn. Game Fish. Res. Inst., P.O. Box 193, SF-00131 Helsinki 13, Finland]

86-005484 Salojarvi, K.; E. Ikonen and R. Rahkonen. POSSIBILITIES FOR INCREASING THE WHITEFISH CATCH THROUGH STOCKING IN THE GULF OF FINLAND. *Finn. Fish. Res.* No. 6. p. 127-133. 1985. FR 31(4)
[Finn. Game Fish. Res. Inst., Fish. Div., P.O. Box 193, SF-00131 Helsinki, Finland]

86-005485 Scott, D. MIGRATION AND THE TRANSEQUATORIAL ESTABLISHMENT OF SALMONIDS. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2684-2690. 1983. FR 31(4)

86-005486 Todd, T. N. STOCKING AND NATURAL RECRUITMENT OF LARVAL COREGONINES IN THE BODENSEE. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:337-342. 1986. FR 31(4)
[U.S.FWS, 1457 Green Rd., Ann Arbor, MI 48105]

86-005487 Vaini, F. A. INTRODUCTION OF EXOTIC FRESHWATER FISHES: HISTORY MOTIVATIONS, ECOLOGICAL AND SANITARY ASPECTS. *Riv. Ital. Piscic. Ittiop.* 20(4):118-126. 1985. In Italian with English summ. FR 31(4)
[Med. Vet., Libero Prof., Via Gonzales 8, 20139 Milano, Italy]

86-005488 Vincent, E. R. EFFECT OF STOCKING HATCHERY RAINBOW TROUT ON WILD STREAM-DWELLING TROUT. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 48-52. 1985. FR 31(4)
[Mont. Dep. Fish Wildl. Parks, Bozeman]

FISHING GEAR AND TECHNIQUES

86-005489 Baturin, V. L. CALIBRATION OF ACOUSTIC EQUIPMENT FROM TRAWL CATCHES. *In: Investigations for Optimization of Fisheries and Perfection of Fishing Gear. VNIRO, Moscow, USSR.* 1985. p.137-141. FR 31(4)

86-005490 Burd, A. C. WHY INCREASE MESH SIZES? *MAFF Dir. Fish. Res. Lab. Leafl.* No. 58. 29p. 1986. FR 31(4)
[Dir. Fish. Res., Lowestoft, England]

86-005491 Chestnoj, V. N. EXTREMLY LOW FREQUENCY ELCTROMAGNETIC RADIATION AS RELATED TO TRAWL FISHERY. *In: Investigations for Optimization of Fisheries and Perfection of Fishing Gear. VNIRO, Moscow, USSR.* 1985. p.163-169. FR 31(4)

86-005492 Chestnoj, V. N. HYDROPHYSICAL MECHANISMS GOVERNING THE FORMATION OF SPRAT CONCENTRATIONS IN THE VICINITY OF LIGHT SOURCE. *In: Investigations for Optimization fo Fisheries and Perfection of Fishing Gear. VNIRO, Moscow, USSR.* 1985. p.169-179. FR 31(4)

86-005493 Clarke, M. R.; P. L. Pascoe and L. Maddock. INFLUENCE OF 70 WATT ELECTRIC LIGHTS ON THE CAPTURE OF FISH BY OTTER TRAWL OFF PLYMOUTH. *J. Mar. Biol. Assoc. U.K.* 66(3):711-720. 1986. FR 31(4)
[The Lab., Mar. Biol. Assoc., Citadel Hill, Plymouth P11 2PB, England]

86-005494 Corsi, F. and G. D. Ardizzone. SOME ENVIRONMENTAL CONDITIONS AFFECTING YELLOW EELS CATCHABILITY. *Oebalia* 11(2):561-571. 1985. In English with Italian summ. FR 31(4)
[Dip. Biol. Anim. dell'Uomo, Univ. "La Sapienza" Rome, Italy]

86-005495 Craig, J. F.; A. Sharma and K. Smiley. THE VARIABILITY IN CATCHES FROM MULTI-MESH GILLNETS FISHED IN THREE CANADIAN LAKES. *J. Fish Biol.* 28(6):671-678. 1986. FR 31(4)
[Freshwater Inst., 501 University Crescent, Winnipeg, MB R3T 2N6, Canada]

86-005496 Demars, J. J. REPERCUSSION OF SMALL HYDROELECTRIC POWER STATIONS ON POPULATIONS OF BROWN TROUT (*SALMO TRUTTA*) IN RIVERS IN THE FRENCH MASSIF-CENTRAL. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 52-61. In English with French summ. FR 31(4)

86-005497 Efanov, S. F. and V. A. Abrazumov. RETENTIVE CAPACITY AND SELECTIVITY OF HOOK-AND-LINE FISHING. *In: Investigations for Optimization of Fisheries and Perfection of Fishing Gear. VNIRO, Moscow, USSR.* 1985. p.94-99. FR 31(4)

86-005498 Efanov, S. F. and M. S. Migel'. SELECTIVITY OF FISHING GEARS FOR PERUVIAN ANCHOVY. *In: Investigations for Optimization of Fisheries and Perfection of Fishing Gear. VNIRO, Moscow, USSR.* 1985. p.103-115. FR 31(4)

86-005499 FAO of the UN. DEFINITION AND CLASSIFICATION OF FISHERY VESSEL TYPES. *FAO Fish. Tech. Pap.* 267:vii+63p. 1985. FR 31(4)
[Rome, Italy]

86-005500 Ferno, A.; P. Solemdal and S. Tilseth. FIELD STUDIES ON THE BEHAVIOUR OF WHITING (*GADUS MERLANGUS* L.) TOWARDS BAITED HOOKS. *Fiskeridir Skr. Ser. Havunders.* 18(3):83-95. 1986. FR 31(4)
[Inst. Fish. Biol., Univ. Bergen, Bergen, Norway]

FISHING GEAR AND TECHNIQUES (CONTINUED)

86-005501 Ionas, V. A. and M. Y. Grojsman. AN APPROXIMATE METHOD FOR ESTIMATION OF OUTER LOAD DURING PURSE SEINE HAULING. *In: Mechanisation and Automation for Catching and Processing Seafood. VNIRO, Moscow, USSR.* 1985. p.145-150. FR 31(4)

86-005502 Korotkov, V. K. and A. V. Yakimovets. ROCK GRENADIER CONCENTRATIONS AND BEHAVIOURAL RESPONSES TO TRAWL. *In: The Behavior of Commercial Fishes. VNIRO, Moscow, USSR.* 1985. p. 122-130. 1985. In Russian with English summ. Abstract only. FR 31(4)

86-005503 Kotov, E. I. A MATHEMATICAL MODEL OF EFFICIENCY OF MID-WATER TRAWLING. *In: Investigation for Optimization of Fisheries and Perfection of Fishing Gear. VNIRO, Moscow, USSR.* 1985. p.47-55. FR 31(4)

86-005504 Kruchinin, O. N. and J. A. Kuznetsov. A BEHAVIOUR STUDY OF PACIFIC SARDINE IN THE PURSE SEINE SET AREA. *In: Investigations for Optimization of Fisheries and Perfection of Fishing Gear. VNIRO, Moscow, USSR.* 1985. p.179-188. FR 31(4)

86-005505 Kusnetsov, J. A. SYSTEMS APPROACH TO THE DEVELOPMENT OF BIOTECHNIQUES OF OPTIMAZATION OF FISHING METHODS AND TACTICS. *In: Investigation for Optimization of Fisheries and Perfection of Fishing Gear. VNIRO, Moscow, USSR.* 1985. p.8-21. FR 31(4)

86-005506 Lindsay, J. A.; E. R. Radle and J. C. S. Wang. A SUPPLEMENTAL SAMPLING METHOD FOR ESTUARINE ICHTHYOPLANKTON WITH EMPHASIS ON THE ATHERINIDAE. *Estuaries* 1(1):61-64. 1978. FR 31(4)

86-005507 Lyons, J. CAPTURE EFFICIENCY OF A BEACH SEINE FOR SEVEN FRESHWATER FISHES IN A NORTH-TEMPERATE LAKE. *N. Am. J. Fish. Manage.* 6(2):288-289. 1986. FR 31(4)
[Wis. Dep. Nat. Resour., 3911 Fish Hatchey Rd., Madison 53711]

86-005508 Matuda, K.; H. Kanehiro, and M. Suzuki. [WATER TANK EXPERIMENTS OF FISH BEHAVIOR TO MODEL OF TRAP NETS.] *Bull. Jpn. Soc. Sci. Fish.* 52(4):657-664. 1986. In Japanese with English summ. FR 31(4)
[Tokyo Univ. Fish., Konan, Minato, Tokyo 108, Japan]

86-005509 Mel'nikov, A. V. DETERMINATION OF SELECTIVITY CURVE PARAMETERS OF TRAWL CODENDS FROM SEMI-EMPIRICAL FORMULAE. *In: Investigations for Optimization of Fisheries and Perfection of Fishing Gear. VNIRO, Moscow, USSR.* 1985. p.68-77. FR 31(4)

86-005510 Mel'nikov, A. V. and R. A. Yusupov. EFFECT OF CODEND SELECTIVITY ON THE CATCH SIZE AND COMPOSTION. *In: Investigation for Optimization of Fisheries and Perfection of Fishing Gear. VNIRO, Moscow, USSR.* 1985. p.64-68. FR 31(4)

86-005511 Murav'ev, V. B. A STUDY OF FISHING BY DIVING. *In: Investigations for Optimization of Fisheries and Perfection of Fishing Gear. VNIRO, Moscow, USSR.* 1985. p.99-103. FR 31(4)

86-005512 Myskov, A. S. ON THE STATISTICAL STABILITY OF SELECTIVITY CRITERION OF FISHING TRAWLS. *In: Investigations for Optimization of Fisheries and Perfection of Fishing Gear. VIRNO, Moscow, USSR.* 1985. p.77-84. FR 31(4)

FISHING GEAR AND TECHNIQUES (CONTINUED)

86-005513 Mytsul, V. F. DETERMINATION OF WORKING LENGTH OF DRIFT NETS DURING DRIFT. *In: Investigations for Optimization of Fisheries and Perfection of Fishing Gear. VNIRO, Moscow, USSR.* 1985. p.123-126. FR 31(4)

86-005514 Mytsul, V. F. WEIGHT DETERMINATION OF THE FLEET ROPE LINKS. *In: Investigations for Optimization of Fisheries and Perfection of Fishing Gear. VNIRO, Moscow, USSR.* 1985. p.126-129. FR 31(4)

86-005515 Noel, H. S. and M. Ben-Yami. PAIR TRAWLING WITH SMALL BOATS. *FAO Training Ser.* 1. 77p. 1980. FR 31(4)
[FAO of the UN, Rome, Italy]

86-005516 Reddin, D. G. EFFECTS OF DIFFERENT MESH SIZES ON GILL-NET CATCHES OF ATLANTIC SALMON IN NEWFOUNDLAND. *N. Am. J. Fish. Manage.* 6(2): 209-215. 1986. FR 31(4)
[Dep. Fish. Oceans, P.O. Box 5667, St. John's, NF A1C 5X1, Canada]

86-005517 Roithmayr, C. M. PURSE SEINE FISHING FOR COASTAL PELAGIC SPECIES IN THE NORTHERN GULF OF MEXICO. *Tex. A&M Univ. Sea Grant Prog.* TAMU-SG-83-112. p.85-101. 1983. FR 31(4)

86-005518 Rosman, I. FISHING WITH BOTTOM GILLNETS. *FAO Training Ser.* 3. 39p. 1980. FR 31(4)
[FAO of the UN, Rome, Italy]

86-005519 Sathyanarayanappa, S. N. and D. S. Sheshappa. THE DESIGN AND OPERATIONAL EFFICIENCY OF A MINI-PURSE SEINE OPERATED IN THE INSHORE WATERS ALONG THE KARNATAKA COAST. *Mysore J. Agric. Sci.* 19(1):24-27. 1985. FR 31(4)
[Coll. Fish., Mangalore 575002, India]

86-005520 Shaub, Y. B. and E. N. Prokopets. ELECTRIC SYSTEMS OF CONTROL OVER DEPTH OF TRAWLING. *In: Mechanization and Automation for Catching and Processing Seafood. VNIRO, Moscow, USSR.* 1985. p.139-145. FR 31(4)

86-005521 Shevtsov, S. E. AN ANALYTICAL EXPRESSION OF TRAWL COD-END SELECTIVITY CURVES AS RELATED TO BALTIC COD AND FLOUNDER. *In: Investigations for Optimization of Fisheries and Perfection of Fishing Gear. VNIRO, Moscow, USSR.* 1985. p.115-123. FR 31(4)

86-005522 Tomljanovich, D. A. and J. H. Heuer. PASSAGE OF GIZZARD SHAD AND THREADFIN SHAD LARVAE THROUGH A LARVAL FISH NET WITH 500- µm OPENINGS. *N. Am. J. Fish. Manage.* 6(2):256-259. 1986. FR 31(4)
[Div. Air Water Resour., TVA, Knoxville, TN 37902]

86-005523 Treshchev, A. I. and V. I. Lunin. ON THE CHANGES IN D/A, AN AS RELATED TO THE PELAGIC TRAWL LENGTH. *In: Investigations for Optimization of Fisheries and Perfection of Fishing Gear. VNIRO, Moscow, USSR.* 1985. p.134-137. FR 31(4)

86-005524 Treshchev, A. I. and P. I. Mogilevskij. AUTOMATED CONTROL OVER FISHING EFFORT IN TRAWL FISHERY. *In: Investigation for Optimization of Fisheries and Perfection of Fishing Gear. VNIRO, Moscow, USSR.* 1985. p.55-63. FR 31(4)

FISHING GEAR AND TECHNIQUES (CONTINUED)

86-005525 Tsumura, K. and J. M. B. Hume. TWO VARIATIONS OF A SALMONID SMOLT TRAP FOR SMALL RIVERS. *N. Am. J. Fish. Manage.* 6(2): 272-276. 1986. FR 31(4)
[B.C. Fish., 2204 Main Mall, Univ. B.C., Vancouver, BC V6T 1W5, Canada]

86-005526 Zaferman, M. L. and L. I. Serebrov. METHODS AND RESULTS OF STUDIES OF TRAWL FISHING EFFICIENCY. *In: Investigations for Optimization of Fisheries and Perfection of Fishing Gear. VNIRO, Moscow, USSR.* 1985. p.84-94. FR 31(4)

FERTILIZATION OF SOIL AND WATER

86-005527 Polprasert, C. UTILISATION OF COMPOSTED NIGHTSOIL IN FISH PRODUCTION. *Consev. Recycling* 7(2-4):199-206. 1984. FR 31(4)

FISHWAYS, FISH PASSAGE THROUGH DAMS, ETC.

86-005528 Aasen, K. D.; G. E. Reiner and A. W. Baracco. THE MOVEMENT AND SURVIVAL OF FISH THROUGH THE A.D. EDMONSTON PUMPING PLANT. *Calif. Dep. Fish Game Inland Fish. Admin. Rep.* No. 82-2. 15p. 1982. FR 31(4)

86-005529 Barry, T. and B. Kynard. ATTRACTION OF ADULT AMERICAN SHAD TO FISH LIFTS AT HOLYOKE DAM, CONNECTICUT RIVER. *N. Am. J. Fish. Manage.* 6(2):233-241. 1986. FR 31(4)
[Mass. Coop. Fish. Res. Unit, 204 Holdworth Hall, Univ. Mass., Amherst 01003]

86-005530 Christie, A. E. FISH PROTECTION AT ONTARIO HYDRO THERMAL GENERATING STATIONS: RECENT DEVELOPMENTS. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2508. 1983. Abstract only. FR 31(4)

86-005531 Ebel, W. J. REVIEW OF EFFECTS OF ENVIRONMENTAL DEGRADATION ON THE FRESHWATER STAGES OF ANADROMOUS FISH. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 62-79. In English with French summ. FR 31(4)

86-005532 Gessel, M. H.; W. E. Farr and C. W. Long. UNDERWATER SEPARATION OF JUVENILE SALMONIDS BY SIZE. *Mar. Fish. Rev.* 47(3):38-42. 1985. FR 31(4)
[NMFS, 2725 Montlake Blvd. East, Seattle, WA 98112]

86-005533 Hadderingh, R. H. MORTALITY OF YOUNG FISH IN THE COOLING WATER SYSTEM OF BERGUM POWER STATION. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):1827-1832. 1977. FR 31(4)

86-005534 Haymes, G. T. and P. H. Patrick. EXCLUSION OF ADULT ALEWIFE, *ALOSA PSEUDOHARENGUS*, USING LOW-FREQUENCY SOUND FOR APPLICATION AT WATER INTAKES. *Can. J. Fish. Aquatic Sci.* 43(4):855-862. 1986. In English with French summ. FR 31(4)
[Ontario Hydro Res. Div., 800 Kipling Ave., Toronto, ON M8Z 5S4, Canada]

FISHWAYS, FISH PASSAGE THROUGH DAMS, ETC. (CONTINUED)

86-005535 Houghton, J. P.; W. M. Blaylock and S. Robertson. ENVIRONMENTAL EFFECTS OF A LARGE SEAWATER INTAKE IN THE NEARSHORE BEAUFORT SEA. *Alaska Sci. Conf.* 36:221-222. 1985. Abstract only. FR 31(4)
[Dames & Moore, 155 N.E. 100th St., Suite 500, Seattle, WA 98125-0711]

86-005536 Jude, D. J.; P. J. Mansfield; S. F. DeBoe and F. J. Tesar. SPATIAL DISTRIBUTION OF ENTRAINED FISH LARVAE IN A POWER PLANT DISCHARGE CANAL. *Can. J. Fish. Aquatic Sci.* 43(5):1070-1074. 1986. In English with French summ. FR 31(4)
[Great Lakes Res. Div., Univ. Mich., Ann Arbor 48109]

86-005537 Lieberman, J. T. and P. H. Muessig. EVALUATION OF AN AIR BUBBLER TO MITIGATE FISH IMPINGEMENT AT AN ELECTRIC GENERATING PLANT. *Estuaries* 1(2):129-132. 1978. FR 31(4)

86-005538 Madenjian, C. P.; D. J. Jude and F. J. Tesar. INTERVENTION ANALYSIS OF POWER PLANT IMPACT ON FISH POPULATIONS. *Can. J. Fish. Aquatic Sci.* 43(4):819-829. 1986. In English with French summ. FR 31(4)
[Dep. Zool., Univ. Hawaii, Honolulu 96822]

86-005539 McCauley, R. W. and F. E. J. Fry. PROPOSAL OF A 'HOT LOCK' AS A BARRIER TO FISH INVASION: AN AFTERTHOUGHT. *Environ. Biol. Fishes* 15(4):272. 1986. FR 31(3)
[Dep. Biol., Wilfrid Laurier Univ., Waterloo, ON N2L 3C5, Canada]

86-005540 Swan, G. A.; T. G. Withrow and D. L. Park. SURVEY OF FISH PROTECTIVE FACILITIES AT WATER WITHDRAWAL SITES ON THE SNAKE AND COLUMBIA RIVERS. *NOAA Tech. Rep. NMFS* 39. iii+34p. 1986. FR 31(4)
[NMFS, Bldg. 900, Big Pasco Indus. Park, Pasco, WA 99301]

MATHEMATICS, STATISTICAL METHODS, AND MODELING

86-005541 Brown, B. E. and G. P. Patil. RISK ANALYSIS IN THE GEORGES BANK HADDOCK FISHERY--A PRAGMATIC EXAMPLE OF DEALING WITH UNCERTAINTY. *N. Am. J. Fish. Manage.* 6(2):183-191. 1986. FR 31(4)
[NMFS, 75 Virginia Beach Dr., Miami, FL 33149]

86-005542 Bulgakova, T. I. and Z. I. Kizner. [MATHEMATICAL MODELLING OF A TWO-SPECIES FISHERY.] *IN: Mathematical and Informational Requirements for Natural Resource Studies. VNIRO*, 1985. p. 97-105. In Russian with English summ. FR 31(4)

86-005543 Chaudhuri, K. A BIOECONOMIC MODEL OF HARVESTING A MULTISPECIES FISHERY. *Ecol. Model.* 32(4):267-279. 1986. FR 31(4)
[Dep. Math., Jadavpur Univ., Calcutta-700032, India]

86-005544 Crecco, V.; T. Savoy and W. Whitworth. EFFECTS OF DENSITY-DEPENDENT AND CLIMATIC FACTORS ON AMERICAN SHAD, *ALOSA SPIDISSIMA*, RECRUITMENT: A PREDICTIVE APPROACH. *Can. J. Fish. Aquatic Sci.* 43(2): 457-463. 1986. In English with French summ. FR 31(4)
[Dep. Environ. Prot., P.O. Box 248, Waterford, CT 06385]

MATHEMATICS, STATISTICAL METHODS, AND MODELING (CONTINUED)

86-005545 Deniso, R. RISK ADVERSE HARVESTING STRATEGIES. *Lect. Notes Biomath.* 61. p. 65-73. 1985. FR 31(4)
[Int. Pac. Halibut Comm., P.O. Box 95009, Seattle, WA 98145-2009]

86-005546 Evans, G. T. and J. B. Dempson. CALCULATING THE SENSITIVITY OF A SALMONID POPULATION MODEL. *Can. J. Fish. Aquatic Sci.* 43(4):863-868. 1986. In English with French summ. FR 31(4)
[Dep. Fish. Oceans, P.O. Box 5667, St. John's, NF A1C 5X1, Canada]

86-005547 Farebrother, R. W. WEIGHTED LEAST-SQUARES ESTIMATES OF MORTALITY RATES FROM SINGLE-RELEASE TAGGING STUDIES. *J. Cons. Cons. Int. Explor. Mer* 42(2):166-170. 1985. FR 31(4)
[Dep. Economet. Social Stat., Univ. Manchester, Manchester M13 9PL, England]

86-005548 Getz, W. M.; G. L. Swartzman and R. C. Francis. A CONCEPTUAL MODEL FOR MULTISPECIES, MULTIFLEET FISHERIES. *Lect. Notes Biomath.* 61. p. 49-63. 1985. FR 31(4)
[Div. Biol. Control, Univ. Calif., Berkeley 94720]

86-005549 Hanneson. OPTIMAL CATCH CAPACITY WITH VARIABLE CATCH QUOTAS. *In: Experiences in the Management of National Fishing Zones. OECD, Paris.* p. 10-28. 1984. FR 31(4)
[Norwegian Sch. Econ. Bus. Admin., Univ. Bergen, Norway]

86-005550 Hannesson, R. OPTIMAL THINNING OF A YEAR-CLASS WITH DENSITY-DEPENDENT GROWTH. *Can. J. Fish. Aquatic Sci.* 43(4):889-892. 1986. In English with French summ. FR 31(4)
[Inst. Fish. Econ., Norwegian Sch. Econ. Bus. Admin., Helleveien 30, N-5035 Bergen-Sandviken, Norway]

86-005551 Hilborn, R. A COMPARISON OF HARVEST POLICIES FOR MIXED STOCK FISHERIES. *Lect. Notes Biomath.* 61. p. 75-87. 1985. FR 31(4)
[Inst. Anim. Resour. Ecol., Univ. British Columbia, Vancouver, BC V6T 1W5, Canada]

86-005552 Hilden, M. and J. Kettunen. MODELS FOR THE ASSESSMENT OF ENVIRONMENTAL IMPACTS ON FISH POPULATIONS AND FISHERIES. *Finn. Fish. Res.* No. 6. p. 35-42. 1985. FR 31(4)
[Dep. Limnol., Univ. Helsinki, Viiki, SF-00710 Helsinki, Finland]

86-005553 Jensen, A. L. FUNCTIONAL REGRESSION AND CORRELATION ANALYSIS. *Can. J. Fish. Aquatic Sci.* 43(9): 1742-1745. 1986. In English with French summ. FR 31(4)
[Sch. Nat. Resour., Univ. Mich., Ann Arbor 48109]

86-005554 Kaitala, V. GAME-THEORY MODELS OF FISHERIES MANAGEMENT--A SURVEY. *Lect. Notes Econ. Math. Syst.* 266:252-267. 1986. FR 31(4)
[Syst. Anal. Lab., Helsinki Univ. Technol., SF-02150 Espoo, Finland]

86-005555 Karpenko, E. A. and V. I. Dudov. ANALYSIS OF CHARACTERISTIC FEATURES OF FISHERY FOR PELAGIC OCEANIC FISHES. *In: Investigations for Optimization of Fisheries and Perfection of Fishing Gear. VNIRO, Moscow, USSR.* 1985. p.3-8. FR 31(4)

MATHEMATICS, STATISTICAL METHODS, AND MODELING (CONTINUED)

86-005556 Kashkin, N. I. ECOLOGICAL PREREQUISITES OF SIMULATION MODELING OF MIGRATIONS OF PELAGIC MARINE FISHES. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):146-160. 1986. FR 31(4)
[Inst. Oceanol., Acad. Sci. USSR, Moscow, USSR]

86-005557 Kitahara, T.; K. Takahashi; Y. Hujikawa; K. Ishida and J. Yoshio. ESTIMATION OF FISHING MORTALITY COEFFICIENT FROM TAG RECOVERIES IN A FINITE PERIOD WITH A FEW CLOSED SEASONS. *Bull. Jpn. Soc. Sci. Fish.* 52(4):579-584. 1986. FR 31(4)
[Dep. Fish., Fac. Agric., Kyoto Univ., Kyoto 606, Japan]

86-005558 Ladanov, Y. V. and S. V. Tikhonov. A MODEL FOR LAKE COMMUNITIES OF FISHES. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(1):1-8. 1986. FR 31(4)
[Yaroslavl. State Univ., USSR]

86-005559 Laevastu, T. and F. Favorite. ECOSYSTEM DYNAMICS IN THE EASTERN BERING SEA. *In: D. W. Hood and J. A. Calder. The Eastern Bering Sea Shelf: Oceanography and Resources.* p. 611-625. 1981. FR 31(4)

86-005560 Mangel, M. SEARCH MODELS IN FISHERIES AND AGRICULTURE. *Lect. Notes Biomath.* 61. p. 105-138. 1985. FR 31(4)
[Dep. Math., Univ. Calif., Davis 95616]

86-005561 Pope, J. G. and J. G. Shepherd. A COMPARISON OF THE PERFORMANCE OF VARIOUS METHODS FOR TUNING VPAs USING EFFORT DATA. *J. Cons. Cons. Int. Explor. Mer* 42(2):129-151. 1985. FR 31(4)
[Fish. Lab., Lowestoft, Suffolk NR33 OHT, England]

86-005562 Pudyakov, Y. A. and V. B. Tseytlin. SIMULATION MODEL OF SEPARATE FISH POPULATIONS INHABITING SUBMARINE RISES. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(1):145-150. 1986. FR 31(4)
[Inst. Oceanol., AN USSR, Moscow, USSR]

86-005563 Ratkowsky, D. A. STATISTICAL PROPERTIES OF ALTERNATIVE PARAMETERIZATIONS OF THE VON BERTALANFFY GROWTH CURVE. *Can. J. Fish. Aquatic Sci.* 43(4):742-747. 1986. In English with French summ. FR 31(4)
[CSIRO Div. Math. Stat., Tasmania Reg. Lab., Stowell Ave., Hobart, Tasmaina 7000, Australia]

86-005564 Rothchild, B. J. and A. J. Mullen. THE INFORMATION CONTENT OF STOCK-AND-RECRUITMENT DATA AND ITS NON-PARAMETRIC CLASSIFICATION. *J. Cons. Cons. Int. Explor. Mer* 42(2):116-124. 1985. FR 31(4)
[Chesapeake Biol. Lab., Univ. Md., Solomons 20688]

86-005565 Ruppert, D. and R. J. Carroll. DATA TRANSFORMATIONS IN REGRESSION ANALYSIS WITH APPLICATIONS TO STOCK-RECRUITMENT RELATIONSHIPS. *Lect. Notes Biomath.* 61. p. 29-47. 1985. FR 31(4)
[Dep. Stat., Univ. N.C., Chapel Hill 27514]

86-005566 Schnute, J. A GENERAL THEORY FOR FISHERY MODELING. *Lect. Note Biomath.* 61. p. 1-27. 1985. FR 31(4)
[Pac. Biol. Stn., Nanaimo, BC V9R 5K6, Canada]

MATHEMATICS, STATISTICAL METHODS, AND MODELING (CONTINUED)

86-005567 Sluczanowski, P. R. YIELD-PER-RECRUIT MODEL USING AN INTEGRATED ELECTRONIC SPREADSHEET. *Fisheries (Bull. Am. Fish Soc.)* 11(3):11-13. 1986. FR 31(4)
[South Aust. Dep. Fish., Box 1625, G.P.O. Adelaide, 5001 Australia]

86-005568 Volovik, S. P. and S. V. Kozlitina. [METHODS OF SAMPLING AND PROCESSING OF ICHTHYOLOGICAL SURVEY DATA.] *IN: Mathematical and Informational Requirements for Natural Resource Studies. VNIRO*, 1985. p. 122-129. In Russian with English summ. FR 31(4)

86-005569 Walter, G. G. A ROBUST APPROACH TO EQUILIBRIUM YIELD CURVES. *Can. J. Fish. Aquatic Sci.* 43(7):1332-1339. 1986. In English with French summ. FR 31(4)
[Dep. Math. Sci., Univ. Wis., Box 413, Milwaukee 53201]

86-005570 Walters, C. J. PATHOLOGICAL BEHAVIOR OF MANAGED POPULATIONS WHEN PRODUCTION RELATIONSHIPS ARE ASSESSED FROM NATURAL EXPERIMENTS. *Lect. Notes Biomath.* 61. p. 89-104. 1985. FR 31(4)
[Inst. Anim. Resour. Ecol., Univ. British Columbia, Vancouver, BC V6T 1W5, Canada]

LAKE MANAGEMENT AND RESEARCH

86-005571 Bninska, M. THE EFFECT OF RECREATIONAL USES UPON AQUATIC ECOSYSTEMS AND FISH RESOURCES. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 223-235. In English with French summ. FR 31(4)

86-005572 Fetterolf, C. M., Jr. LAKE TROUT FUTURES IN THE GREAT LAKES. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 163-170. 1985. FR 31(4)
[Great Lakes Fish. Comm., Ann Arbor]

86-005573 Folz, D. J. and V. S. Meyers. MANAGEMENT OF THE LAKE STURGEON, *ACIPENSER FULVESCENS*, POPULATION IN THE LAKE WINNEBAGO SYSTEM, WISCONSIN. *Dev. Environ. Biol. Fishes* 6:135-146. 1985. FR 31(4)
[Wis. Dep. Nat. Resour., Box 2565, Oshkosh 54903]

86-005574 Hardy, F. J.; K. S. Shortreed and J. G. Stockner. BACTERIOPLANKTON, PHYTOPLANKTON, AND ZOOPLANKTON COMMUNITIES IN A BRITISH COLUMBIA COASTAL LAKE BEFORE AND AFTER NUTRIENT REDUCTION. *Can. J. Fish. Aquatic Sci.* 43(8):1504-1514. 1986. In English with French summ. FR 31(4)
[Fish. Res. Br., West Vancouver Lab., 4160 Marine Dr., West Vancouver, BC V7V 1N6, Canada]

86-005575 Huhmarniemi, A.; A. Niemi and R. Palomaki. WHITEFISH AND VENDACE STOCKS IN THE REGULATED LAKE PYHAJARVI, CENTRAL FINLAND. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 165-172. In English with French summ. FR 31(4)

86-005576 Kaatra, K. and O. Simola. WATER LEVEL REGULATION OF LAKE INARI: IMPACTS AND COMPENSATION MEASURES. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 173-178. In English with French summ. FR 31(4)

LAKE MANAGEMENT AND RESEARCH (CONTINUED)

86-005577 Mutenia, A. DEVELOPMENT OF FISH STOCK AND FISH POPULATIONS IN LAKE INARI. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 179-185. In English with French summ. FR 31(4)

86-005578 Scavia, D.; G. L. Fahnenstiel; M. S. Evans; D. J. Jude and J. T. Lehman. INFLUENCE OF SALMONINE PREDATION AND WEATHER ON LONG-TERM WATER QUALITY TRENDS IN LAKE MICHIGAN. *Can. J. Fish. Aquatic Sci.* 43(2): 435-443. 1986. In English with French summ. FR 31(4)
[NOAA, Great Lakes Environ. Res. Lab., Ann Arbor, MI 48104]

86-005579 Todd, T. N. ARTIFICIAL PROPAGATION OF COREGONINES IN THE MANAGEMENT OF THE LAURENTIAN GREAT LAKES. *Arch. Hydrobiol. Beih. Ergebn. Limnol.* 22:31-50. 1986. FR 31(4)
[U.S.FWS, 1451 Green Rd., Ann Arbor, MI 48105]

86-005580 Whitfield, A. K. FISH COMMUNITY STRUCTURE RESPONSE TO MAJOR HABITAT CHANGES WITHIN THE LITTORAL ZONE OF AN ESTUARINE COASTAL LAKE. *Environ. Biol Fishes* 17(1):41-51. 1986. FR 31(4)
[Inst. Freshwater Stud., Rhodes Univ., Swartvlei Proj., P.O. Box 49, Sedgefield, South Africa]

RIVER AND STREAM MANAGEMENT AND RESEARCH

86-005581 Bergin, J. D. MASSACHUSETTS COASTAL TROUT MANAGEMENT. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 137-142. 1985. FR 31(4)
[Mass. Div. Fish. Wildl., Westboro]

86-005582 Birkhead, W. S.; C. Johnston; G. E. Stanton; A. Brown; T. Burkett and S. Cutler. LIMNOLOGICAL STUDIES OF TWO SMALL STREAMS THAT DRAIN IN THE NORTH SLOPE OF PINE MOUNTAIN, HARRIS COUNTY, GEORGIA. *Ga. J. Sci.* 40(1-2):10-11. 1982. FR 31(4)

86-005583 Bouvet, Y.; E. Pattee and F. Meggouh. THE CONTRIBUTION OF BACKWATERS TO THE ECOLOGY OF FISH POPULATIONS IN LARGE RIVERS. PRELIMINARY RESULTS ON FISH MIGRATIONS WITHIN A SIDE ARM AND FROM THE SIDE ARM TO THE MAIN CHANNEL OF THE RHONE. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4): 2576-2580. 1983. FR 31(4)

86-005584 Bristow, E. T. and G. A. Gould. OPPORTUNITIES TO PROTECT INSTREAM FLOWS IN MONTANA. *U.S. Fish Wild. Serv. Biol. Rep.* 86(4):v+34p. 1986. FR 31(4)
[Univ. Denver, 7039 E. 18th Ave., Denver, CO 80220]

86-005585 Bryant, M. D. DISTRIBUTION OF SALMONIDS IN THE TRAP BAY BASIN, TENAKEE INLET. *IN W. R. Meehan; T. R. Merrell, Jr. and T. A. Hanley (eds.). Fish and Wildlife Relationships in Old-Growth Forests. (Am. Inst. Fish. Res. Biol.).* p. 17-31. 1984. Available @ $20.00 from J. W. Reintjes, Rt. 4, Box 85, Morehead City, NC 28557.
[USDA For. Serv., Juneau, AK] Because land management may affect a stream system at various points along its progression to the sea, it is important to identify zones used in the watershed by juvenile salmonids. This 2-year study examined the distribution of juvenile salmonids in an undisturbed,

RIVER AND STREAM MANAGEMENT AND RESEARCH (CONTINUED)

86-005585 CONTINUED old-growth forest drainage. The purpose of the study was to determine the distribution of juvenile salmonids in a small stream basin from the main stream through the upper tributaries. Differences in density, species ratios, and size among juvenile salmonids in main-stream zones, lower tributary zones, and upper tributary zones were observed. Upper reaches of tributaries were used by age-0 coho, cutthroat trout, and Dolly Varden. Lower reaches of tributaries were extensively used by juvenile coho of all age-classes and Dolly Varden up to about 120mm in length. Main-stream zones were sparsely populated by all species, but where off-channel rearing areas were available, coho were more abundant. Differences in density occurred from early summer to early fall.

86-005586 Burger, C. V.; D. B. Wangaard and R. L. Wilmot. KENAI RIVER SALMON...A UNIQUE RESOURCE IN SOUTH-CENTRAL ALASKA. *Fish Wildl. Leafl.* 3. 14p. 1985. FR 31(4)
[U.S. FWS, Natl. Fish. Res. Cent., Seattle, WA 98115]

86-005587 Cragg-Hine, D. THE ASSESSMENT OF THE FLOW REQUIREMENTS FOR UPSTREAM MIGRATION OF SALMONIDS IN SOME RIVERS OF NORTH-WEST ENGLAND. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 209-215. In English with French summ. FR 31(4)

86-005588 Davies, B. R. and K..F. Walker (eds.). THE ECOLOGY OF RIVER SYSTEMS. *Monogr. Biol.* 60:xviii+793p. 1986. FR 31(4)
[Available from Dr. W. Junk Publ., P.O. Box 163, 3300 AD Dordrecht, Netherlands]

86-005589 Elser, A. A. AN OVERVIEW OF CURRENT MANAGEMENT PRACTICES FOR PADDLEFISH FISHERIES. *North Cent. Div. Am. Fish. Soc. Spec. Publ.* No. 7. p.62-67. 1986. Available at $9.00 ($11.00 Foreign) from Joe G. Dillard, 1110 College Ave., Columbia, MO 65201. FR 31(4)
[Mont. Dep. Fish. Wildl. Parks, P.O. Box 67, Kalispell 59901]

86-005590 Eronen, T. K. and P. Shemeikka. THE RESTORATION OF THE RIVER VAIKKOJOKI, FINLAND. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 109-115. In English with French summ. FR 31(4)

86-005591 Fjelsted, S. ATLANTIC SALMON IN ICELAND'S RIVER GRIMSA. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 32. 1985. FR 31(4)

86-005592 Gibbons, D. R. A STREAMSIDE MANAGEMENT PLAN FOR NATIONAL-FOREST LANDS IN SOUTHEAST ALASKA. *IN W. R. Meehan; T. R. Merrell, Jr. and T. A. Hanley (eds.). Fish and Wildlife Relationships in Old-Growth Forests. (Am. Inst. Fish. Res. Biol.).* p. 175-182. 1984. Available @ $20.00 From J. W. Reintjes, Rt. 4, Box 85, Morehead City, NC 28557. FR 31(4)
[USDA For. Serv., P.O. Box 1628, Juneau, AK 99802]

86-005593 Hallberg, J. and R. Holmes. FISH AND FISHERIES OF THE CHENA RIVER. *Alaska Sci. Conf.* 36:137. 1985. Abstract only. FR 31(4)
[Alaska Dep. Fish Game, 1300 College Rd., Fairbanks 99701]

86-005594 Heede, B. H. THE EVOLUTION OF SALMONID STREAM SYSTEMS. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 33-37. 1985. FR 31(4)
[USDA For. Serv., Rocky Mtn. For. Range Exp. Stn., Tempe, AZ]

RIVER AND STREAM MANAGEMENT AND RESEARCH (CONTINUED)

86-005595 Hermansen, H. and C. Krog. A REVIEW OF BROWN TROUT (*SALMO TRUTTA*) SPAWNING BEDS, INDICATING METHODS FOR THEIR RE-ESTABLISHMENT IN DANISH LOWLAND RIVERS. *IN: J. S. Alabaster, (ed.). Habitat Modification and Freshwater Fisheries. FAO of the UN.* 1985. p. 116-123. In English with French summ. FR 31(4)

86-005596 Kiefling, J. W. RESTORATION OF A SPRING CREEK. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 143-145. 1985. FR 31(4)
[Wyo. Game Fish Dep., Jackson]

86-005597 Koski, K. V. A STREAM ECOSYSTEM IN AN OLD-GROWTH FOREST IN SOUTHEAST ALASKA: PART I. DESCRIPTION AND CHARACTERISTICS OF PORCUPINE CREEK, ETOLIN ISLAND. *IN W. R. Meehan; T. R. Merrell, Jr. and T. A. Hanley (eds.). Fish and Wildlife Relationships in Old-Growth Forests. (Am. Inst. Fish. Res. Biol.)* p. 47-55. 1984. Available @ $20.00 from J. W. Reintjes, Rt.4, Box 85, Morehead City, NC 28557. FR 31(4)
[NMFS, Auke Bay, AK]

86-005598 Leonard, P. M.; D. J. Orth, and C. J. Goudreau. DEVELOPMENT OF A METHOD FOR RECOMMENDING INSTREAM FLOWS FOR FISHES IN THE UPPER JAMES RIVER, VIRGINIA. *Va. Water Resour. Res. Cent. Bull.* 152. xi+122p. 1986. Available from Va. Water Resour. Res. Cent., VPI&SU, Blacksburg, VA 24060-3397. Free within Virginia; $6.00 to out-of-state if payment accompanies order; $8.00 if billing is to follow. FR 31(4)

86-005599 Merona, B. [THE FISH POPULATION AND FISHERY FROM THE LOWER TOCANTINS (AMAZONIAN BRAZIL) BEFORE THE CLOSING OF TUCURUI DAM.] *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2698-2703. 1983. In French. FR 31(4)

86-005600 Minckley, W. S. and D. A. Hendrickson. CIENEGAS--ENDANGERED HABITATS OF THE SOUTHWEST. *Proc. Desert Fishes Counc.* 13-15:248-249. 1985. Abstract only. In English and Spanish. FR 31(4)

86-005601 Mongillo, P. SUMMARY OF A BASIC FISHERY MANAGEMENT STRATEGY FOR RESIDENT AND ANADROMOUS TROUT HABITATS, WASHINGTON STATE. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 61-62. 1985. FR 31(4)
[Wash. Dep. Game, Fish Manage. Div., Olympia, WA]

86-005602 Pasch, R. W. and C. M. Alexander. EFFECTS OF COMMERCIAL FISHING ON PADDLEFISH POPULATIONS. *North Cent. Div. Am. Fish. Soc. Spec. Publ.* No. 7. p.46-53. 1986. Available at $9.00 ($11.00 Foreign) from Joe G. Dillard, 1110 College Ave., Columbia, MO 65201. FR 31(4)
[Off. Nat. Resour. Econ. Div., TVA, Knoxville, TN 37902]

86-005603 Phinney, L. A. CHINOOK SALMON OF THE COLUMBIA RIVER BASIN. *Audubon Wildl. Rep.* 1986. 715-741. 1986. FR 31(4)

86-005604 Rode, M. and W. D. Weidlein. CALIFORNIA WILD TROUT MANAGEMENT PROGRAM FALL RIVER MANAGEMENT PLAN. *Calif. Dep. Fish Game Inland Fish. Admin. Rep.* 86-2. 55p. 1986. FR 31(4)

86-005605 Roelofs, T. D. WILD SUMMER STEELHEAD TROUT IN CALIFORNIA. *In: Richardson, F. and R. H. Hamre (Tech. eds.). Wild Trout III.* p. 41-46. 1985. FR 31(4)
[Dep. Fish., Humboldt State Univ., Arcata, CA]

RIVER AND STREAM MANAGEMENT AND RESEARCH (CONTINUED)

86-005606 Schill, D. J. and J. S. Griffith. HOOKING MORTALITY OF CUTTHROAT TROUT IN A CATCH-AND-RELEASE SEGMENT OF THE YELLOWSTONE RIVER, YELLOWSTONE NATIONAL PARK. *N. Am. J. Fish. Manage.* 6(2):226-232. 1986. FR 31(4)
[Dep. Biol. Sci., Idaho State Univ., Pocatello 83209]

86-005607 Scudder, T. and T. Conelly. MANAGEMENT SYSTEMS FOR RIVERINE FISHERIES. *FAO Fish. Tech. Pap.* 263. vi+85p. 1985. FR 31(4)
[Inst. Dev. Anthropol., Binghamton, NY]

86-005608 Sedell, J. R. and F. J. Swanson. ECOLOGICAL CHARACTERISTICS OF STREAMS IN OLD-GROWTH FORESTS OF THE PACIFIC NORTHWEST. *IN W. R. Meehan, T. R. Merrell, Jr. and T. A. Hanley (eds.). Fish and Wildlife Relationships in Old-Growth Forests. (Am. Inst. Fish. Res. Biol.)* p. 9-16. 1984. Available @ $20.00 from J. W. Reintjes, Rt. 4, Box 85, Morehead City, NC 28557. FR 31(4)
[USDA For. Serv., Corvallis, OR] Forest vegetation strongly affects habitat in streams and rivers of all sizes. Streams associated with old-growth forests are dominated by large tree-sized woody debris. Large woody debris traps sediment and creates a great diversity of habitat for both fish and aquatic invertebrates. Woody debris slows the routing of finer organic matter, and allows organisms time to more fully process these materials before they are moved downstream. The structural influences of woody debris differ little between streams flowing through old-growth and through natural, young, post-wildfire stands. Large logs may reside in a channel for a century, or more, and provide a variety of benefits to the aquatic ecosystem until the post-wildfire stand matures to the point of contrubuting large debris to the channel. The United States has few remaining examples of the full, natural interaction of rivers with adjacent forests except in Alaska and national parks. Undisturbed streams in old-growth forests are restricted to small, high-gradient examples in relatively inaccessible and mountainous areas. A rich archival record documents man-imposed changes in forest influences on rivers in a variety of regions and geological and topographic settings. These old records--from fur trappers, the U.S. Army Corps of Engineers, and others--describe natural river systems greatly influenced by numerous downed trees, and large jams of floated debris.

86-005609 Stout, A. V. PROGRESS IN RESTORATION OF ATLANTIC SALMON. *Aquasphere* 15(1):10-15. 1981. FR 31(4)

86-005610 Washington Department of Fisheries. AN EVALUATION OF THREE GROUNDWATER-FED SIDE CHANNELS OF THE EAST FORK SATSOP RIVER--SPRING 1984 OUTMIGRANTS. *Wash. Dep. Fish. Tech. Rep.* No. 89. v+47p. 1986. FR 31(4)
[115 Gen. Admin. Bldg., Olympia, WA 98504]

FARM POND AND SMALL IMPOUNDMENT MANAGEMENT AND RESEARCH

86-005611 Hollerman, W. D. and C. E. Boyd. EFFECTS OF ANNUAL DRAINING ON THE LIMNOLOGY OF SUNFISH PONDS. *Prog. Fish-Cult.* 48(2):120-124. 1986. FR 31(4)
[Dep. Fish Allied Aquacult., Ala. Agric. Exp. Stn., Auburn Univ., AL 36849]

86-005612 Holopainen, I. J. and H. Hyvarinen. ECOLOGY AND PHYSIOLOGY OF CRUCIAN CARP [*CARASSIUS CARASSIUS* (L.)] IN SMALL FINNISH PONDS WITH ANOXIC CONDITIONS IN WINTER. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4): 2556-2570. 1983. FR 31(4)

LARGE IMPOUNDMENT MANAGEMENT AND RESEARCH

86-005613 Jenkins, R. M.; L. R. Aggus and G. R. Ploskey. INVENTORY OF UNITED STATES RESERVOIRS. *Great Lakes Fish. Lab. Admin. Rep.* No.86-2. 33p. 1986. FR 31(4)
[Aquatic Ecosystems Analysts, P.O. box 4188, Fayetteville, AR 72702]

86-005614 Marshall, B. E. LIMNOLOGY AND FISHERIES MANAGEMENT IN ZIMBABWE. *Int. Ver. Theor. Angew. Limnol. Verh.* 22(4):2671-2675. 1983. FR 31(4)

86-005615 Natarajan, A. V. ALL INDIA COORDINATED RESEARCH PROJECT ON ECOLOGY AND FISHERIES OF FRESHWATER RESERVOIRS. *Cent. Inland Fish. Res. Inst. (Barrackpore) Inland Fish. Res. Inf. Ser.* 2. iv+68p. 1981. FR 31(4)
[Cent. Inland Fish. Res. Inst., Barrackpore 743101, West Bengal, India]

86-005616 Natarajan, A. V. FINAL REPORT ALL INDIA CO-ORDINATED RESEARCH PROJECT ECOLOGY AND FISHERIES OF FRESHWATER RESERVOIRS. NAGARJUNASAGAR. *Cent. Inland Fish. Res. Inst. (Barrackpore) Inland Fish. Res. Inf. Ser.* 3. iv+66p. 1983. FR 31(4)
[Cent. Inland Fish Res. Inst., Barrackpore 743101, West Bengal, India]

86-005617 Natarajan, A. V. ALL INDIA COORDINATED RESEARCH PROJECT ON ECOLOGY AND FISHERIES OF FRESHWATER RESERVOIRS. *Cent. Inland Fish. Res. Inst. (Barrackpore) Inland Fish. Res. Inf. Ser.* 1. iv+66p. 1981. FR 31(4)
[Cent. Inland Fish. Res. Inst., Barrackpore 743101, West Bengal, India]

86-005618 Northcote, T. G.; M. S. Arcifa and O. Froehlich. EFFECTS OF IMPOUNDMENT AND DRAWDOWN ON THE FISH COMMUNITY OF A SOUTH AMERICAN RIVER. *Int. Ver Theor. Angew. Limnol. Verh.* 22(4):2704-2711. 1983. FR 31(4)

86-005619 Ploskey, G. R.; L. R. Aggus; W. M. Bivin and R. M. Jenkins. REGRESSION EQUATIONS FOR PREDICTING FISH STANDING CROP, ANGLER USE, AND SPORT FISH YIELD FOR UNITED STATES RESERVOIRS. *Great Lakes Fish. Lab. Admin. Rep.* No.86-5. 87p. 1986. FR 31(4)
[U.S. FWS, Great Lakes Fish. Lab., 1451 Green Rd., Ann Arbor, MI 48105]

86-005620 Vostradovsky, J. THE FUTURE OF COREGONIDS IN MAN-MADE LAKES IN CZECHOSLOVAKIA. *Arch. Hydrobiol Beih. Ergebn. Limnol.* 22:141-149. 1986. In English with German summ. FR 31(4)
[Fish. Res. Inst., CS-252 66 Libcice nad Vltavou, Czechoslovakia]

ESTUARY MANAGEMENT AND RESEARCH

86-005621 Cronin, L. E. CHESAPEAKE FISHERIES AND RESOURCE STRESS IN THE 19TH CENTURY. *J. Wash. Acad. Sci.* 76(3):188-198. 1986. FR 31(4)
[12 Mayo Ave., Bay Ridge, Annapolis, MD 21403]

86-005622 Rozas, L. P. and C. T. Hackney. THE IMPORTANCE OF OLIGOHALINE ESTUARINE WETLAND HABITATS T' FISHERIES RESOURCES. *Wetlands* 3:77-89. 1983. FR 31(4)
[Dep. Environ. Sci., Univ. Va., Charlottesville 22903]

ESTUARY MANAGEMENT AND RESEARCH (CONTINUED)

86-005623 Teal, J. M. THE ECOLOLGY OF REGULARLY FLOODED SALT MARSHES OF NEW ENGLAND: A COMMUNITY PROFILE. *U.S. Fish Wildl. Serv. Biol. Rep.* 85(7.4). x+61p. 1986. FR 31(4)
[Woods Hole Oceanogr. Inst., Woods Hole, MA 02543]

MARINE MANAGEMENT AND RESEARCH

86-005624 AUSTRALIAN AND NEW ZEALAND EXPERIENCES IN DEVELOPING FISHERIES. *In: Experiences in the Management of National Fishing Zones. OECD, Paris.* p. 81-105. 1984. FR 31(4)

86-005625 Bakkala, R.; K. King and W. Hirschberger. COMMERCIAL USE AND MANAGEMENT OF DEMERSAL FISH. *In: D. W. Hood and J. A. Calder. The Eastern Bering Sea Shelf: Oceanography and Resources.* p. 1015-1036. 1981. FR 31(4)
[NMFS, 2725 Montlake Blvd. East, Seattle, WA 98112]

86-005626 Ballah, L. LAW OF THE SEA: WHAT IT IS AND HOW IT WILL CHANGE FISHING AND MARKETING PRACTICES IN THE CARIBBEAN. *Proc. Gulf Caribb. Fish. Inst.* 36:1-9. 1984. FR 31(4)
[Minist. Educ., Port of Spain, Trinidad and Tobago]

86-005627 Bannerot, S. P. and J. E. Powers. MANAGEMENT-ORIENTATED RESEARCH AND ASSESSMENT OF REEF FISH STOCKS: PROBLEMS AND APPROACHES. *Proc. Gulf Caribb. Fish. Inst.* 36:152-162. 1984. FR 31(4)
[Coop. Inst. Mar. Atmos. Sci., Univ. Miami, Miami, FL 33149]

86-005628 Chikumi, S. THE FISH RESOURCES OF THE NORTHWEST PACIFIC. *FAO Fish. Tech. Pap.* 266. xiii+190p. 1985. FR 31(4)
[FAO of the UN, Rome, Italy]

86-005629 Dewees, C. M. TECHNICAL INNOVATION IN THE PACIFIC COAST COMMERCIAL TRAWLING AND SALMON TROLLING FISHERIES. *Ph.D. dissertation, Univ. Calif.* 341p. 1985. From Diss. Abstr. Int. B Sci. Eng. 47(2):481. 1986. FR 31(4)

86-005630 Efimov, Y. N.; G. P. Domashenko; V. A. Shlyakhova and G. S. Yur'ev. ESTIMATED TOTAL ALLOWABLE CATCH OF SPRAT IN THE BLACK SEA. *In: Oceanographic and Fishery Investigations of the Black Sea. VNIRO, Moscow, USSR.* p.101-110. 1985. In Russian with English summ. FR 31(4)

86-005631 FAO of the UN. REPORT OF THE JOINT SESSION OF THE INDIAN OCEAN FISHERY COMMISSION (SEVENTH SESSION) AND THE INDO-PACIFIC FISHERY COMMISSION (TWENTIETH SESSION). *FAO Fish. Rep.* No. 281. viii+190p. 1985. FR 31(4)
[Rome, Italy]

86-005632 FAO of the UN. REPORT OF THE SIXTEENTH SESSION OF THE COMMITTEE ON FISHERIES. *FAO Fish. Rep.* No. 339. x+46p. 1985. FR 31(4)
[Rome, Italy]

86-005633 FAO of the UN. REPORT OF THE EXPERT CONSULTATION ON THE ACQUISITION OF SOCIO-ECONOMIC INFORMATION IN FISHERIES (WITH PARTICULAR REFERENCE TO SMALL-SCALE FISHERIES). *FAO Fish. Rep.* No. 344. v+21p. 1985. FR 31(4)
[Rome, Italy]

MARINE MANAGEMENT AND RESEARCH (CONTINUED)

86-005634 FAO of the UN. REPORT OF THE EIGHTH SESSION OF THE INDIAN OCEAN FISHERY COMMISSION. *FAO Fish. Rep.* No. 341. v+24p. 1985. FR 31(4)
[Rome, Italy]

86-005635 FAO of the UN. REPORT OF THE ELEVENTH SESSION OF THE ADVISORY COMMITTEE OF EXPERTS ON MARINE RESOURCES RESEARCH. *FAO Fish. Rep.* No.338. v+20p. 1985. FR 31(4)
[Rome, Italy]

86-005636 FAO of the UN. INDO-PACIFIC FISHERY COMMISSION REPORT OF THE FOURTH SESSION OF THE COMMITTEE FOR THE DEVELOPMENT AND MANAGEMENT OF FISHERIES IN THE SOUTH CHINA SEA. *FAO Fish. Rep.* No. 342. v+17p. 1985. FR 31(4)
[Rome, Italy]

86-005637 FAO of the UN. INDIAN OCEAN FISHERY COMMISSION. REPORT OF THE THIRD SESSION OF THE COMMITTEE FOR THE DEVELOPMENT AND MANAGEMENT OF FISHERIES IN THE BAY OF BENGAL AND THE NINTH MEETING OF THE ADVISORY COMMITTEE FOR THE DEVELOPMENT OF SMALL-SCALE FISHERIES OF THE BAY OF BENGAL PROGRAMME. *FAO Fish. Rep.* No. 330. v+26p. 1985. FR 31(4)
[Rome, Italy]

86-005638 FAO of the UN. REPORT OF THE FAO SEAFDEC WORKSHOP ON SHARED STOCKS IN SOUTHEAST ASIA, BANGKOK, 18-22 FEBRUARY 1985. *FAO Fish. Rep.* No. 337. vi + 97p. 1985. FR 31(4)
[Rome, Italy]

86-005639 FAO OF THE UN. REPORT OF THE 5TH SESSION OF THE WESTERN CENTRAL ATLANTIC FISHERY COMMISSION. *FAO Fish. Rep.* No. 348. iii+27p. 1985. FR 31(4)
[Rome, Italy]

86-005640 Favorite, F. and T. Laevastu. FINFISH AND THE ENVIRONMENT. *In: D. W. Hood and J. A. Calder. The Eastern Bering Sea Shelf: Oceanography and Resources.* p. 597-610. 1981. FR 31(4)
[NMFS, 2725 Montlake Blvd. East, Seattle, WA 98112]

86-005641 Finch. ALLOCATION OF FISHERY RESOURCES IN U.S. FISHERY MANAGEMENT PLANS. *In: Experiences in the Management of National Fishing Zones. OECD, Paris.* p. 144-152. 1984. FR 31(4)
[NMFS, Off. Fish. Manage., Washington, DC 20235]

86-005642 Garcia Del Barco, F. and J. Crespo Leon. [DESCRIPTION OF THE FISHERIES IN THE COASTAL AND ESTUARINE AREAS OF CUBA.] *Rev. Cubana Invest. Pesq.* 6(2):50-69. 1981. In Spanish with English summ. FR 31(4)
[Cent. Invest. Pesq., Havana, Cuba]

86-005643 Garcia, S. and D. Charbonnier, (eds.). GENERAL FISHERIES COUNCIL FOR THE MEDITERRANEAN. REPORT ON THE SECOND TECHNICAL CONSULTATION ON STOCK ASSESSMENT IN THE CENTRAL MEDITERRANEAN. *FAO Fish. Rep.* No. 336. vii+140p. 1985. In French and English. FR 31(4)
[FAO of the UN, Rome, Italy]

86-005644 Haimovici, M. and R. P. Habiaga. [DISCARD IN THE DEMERSAL TRAWL FISHERY OFF RIO GRANDE DO SUL DURING A SPRING FISHERY CRUISE.] *Fund. Univ. Rio Grande Doc. Tec. Oceanogr.* 2. 14p. 1982. In Portugese with English

MARINE MANAGEMENT AND RESEARCH (CONTINUED)

86-005644 CONTINUED summ. FR 31(4)
[Univ. Rio Grande, Dep. Oceanogr., Caixa Postal 474, 96200 Rio Grande, RS, Brazil]

86-005645 Hau, S. ECONOMIC ANALYSIS OF DEEP BOTTOMFISHING IN THE NORTHWESTERN HAWAIIAN ISLANDS. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 1. p.265-282. 1984. FR 31(4)
[Dep. Land Nat. Resour., Div. Aquatic Resour., Fish. Dev. Unit, Honolulu, HI 96813]

86-005646 Hida, T. S. PELAGIC FISHERIES RESOURCES OF THE NORTHWESTERN HAWAIIAN ISLANDS. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 1. p.328-338. 1984. FR 31(4)
[NMFS, P.O. Box 3830, Honolulu, HI 96812]

86-005647 Holden. MANAGEMENT OF FISHERY RESOURCES: THE EEC EXPERIENCE. *In: Experiences in the Management of National Fishing Zones. OECD, Paris.* p. 113-120. 1984. FR 31(4)
[Comm. Eur. Commun., Brussels, Belgium]

86-005648 Humphreys, R. L., Jr.; D. T. Tagami and M. P. Seki. SEAMOUNT FISHERY RESOURCES WITHIN THE SOUTHERN EMPEROR-NORTHERN HAWAIIAN RIDGE AREA. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 1. p.283-327. 1984. FR 31(4)
[NMFS, P.O. Box 3830, Honolulu, HI 96812]

86-005649 International Council for the Exploration of the Sea. REPORTS OF THE ICES ADVISORY COMMITTEE ON FISHERY MANAGEMENT, 1985. *Int. Counc. Explor. Sea Coop. Res. Rep.* 137. v+422p. 1986. FR 31(4)
[Palaegade 2-4, 1261 Copenahgen K, Denmark]

86-005650 Iriarte, L. M.; P. Freon; A. Ridriguez; A. Gonzalez; F. Gerlotto and J. Mendoza. ARTISANAL FISHERIES OF EASTERN VENEZUELA: EVALUATION OF POTENTIAL FISHING EFFORT. *Proc. Gulf Caribb. Fish. Inst.* 36:183-191. 1984. FR 31(4)
[FLASA, Apto. 144, Porlamar 6301, Nueva Esporta, Venezuela]

86-005651 Jarvik, A. POSSIBILITIES FOR RATIONALIZATION OF SPRING-SPAWNING HERRING POUND-NET FISHERY. *Finn. Fish. Res.* No. 6. p. 118-126. 1985. FR 31(4)
[Tallinn Dep. Baltic Fish. Res. Inst., Opteegi 1-2, Tallinn, 200001 Estonian SSR, USSR]

86-005652 Johansson. EXCEEDING OF TAC'S AND QUOTAS--CONSEQUENCES AND COUNTER-ACTIONS. *In: Experiences in the Management of National Fishing Zones. OECD, Paris.* p. 153. 1984. FR 31(4)
[Natl. Bd. Fish., Sweden]

86-005653 Jordan, C. M. THE FLYING FISH INDUSTRY OF TRINIDAD AND TOBAGO: A CONTINUING CASE STUDY. *Proc. Gulf Caribb. Fish. Inst.* 36:177-182. 1984. FR 31(4)
[Caribb. Fish. Train. Dev. Inst., Port of Spain, Trinidad and Tobago]

MARINE MANAGEMENT AND RESEARCH (CONTINUED)

86-005654 Kashimura, A.; A. Kuroyanagi; T. Miyazaki; T. Kondo; T. Soh and W. Kato. NEW CONCEPT OF OFFSHORE FISHERY BASE FOR EFFECTIVE UTILIZATION OF 200 MILES EEZ. *In: W. Kato, (ed.). Ocean Space Utilization '85: Proc. Int. Symp. Nihon Univ.* Vol. 2. 1985. p. 169-178. FR 31(4)
[Dep. Oceanic Arch. Eng., Coll. Sci. Tech., Nihon Univ., Narashinodai, Funabashi, Chiba, 274 Japan]

86-005655 Kawamoto, P. STATE FISHERY REGULATIONS IN THE NORTHWESTERN HAWAIIAN ISLANDS. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 1. p.458-462. 1984. FR 31(4)
[Dep. Land Nat. Resour., Div. Aquatic Resour., 1151 Punchbowl St., Hononlulu, HI 96813]

86-005656 Kushnarenko, A. L. ECOLOGICAL BASIS OF THE FISHERY FOR CASPIAN CLUPEIDS. *J. Ichthyol. (Engl. Transl. Vopr. Ikhtiol.)* 26(2):16-23. 1986. FR 31(4)
[KaspNIIRKh, Astrakhan, USSR]

86-005657 Leary, T. R. ACTIVITIES OF THE GULF OF MEXICO FISHERY MANAGEMENT COUNCIL. *Tex. A&M Univ. Sea Grant Prog.* TAMU-SG-83-112. p.1-5. 1983. FR 31(4)

86-005658 McHugh, J. L. and D. Conover. HISTORY AND CONDITION OF FOOD FINFISHERIES IN THE MIDDLE ATLANTIC REGION COMPARED WITH OTHER SECTIONS OF THE COAST. *Fisheries (Bull. Am. Fish. Soc.)* 11(5):8-13. 1986. FR 31(4)

86-005659 Miller, S. K. and J. R. Davidson. ECONOMICS AND ENVIRONMENTAL VALUES IN THE MANAGEMENT OF THE NORTHWESTERN HAWAIIAN ISLANDS' FISHERY AND ENVIRONMENTAL RESOURCES. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 1. p.401-426. 1984. FR 31(4)
[Univ. Hawaii Sea Grant Coll. Prog., 1000 Pope Rd., Honolulu, HI 96822]

86-005660 Moore, G. K. COASTAL STATE REQUIREMENTS FOR FOREIGN FISHING. *FAO Legis. Stud.* No. 21 (Rev.2). 297p. 1985. FR 31(4)

86-005661 Munro, J. L. and I. R. Smith. MANAGEMENT STRATEGIES FOR MULTI-SPECIES COMPLEXES IN ARTISANAL FISHERIES. *Proc. Gulf Caribb. Fish. Inst.* 36:127-141. 1984. FR 31(4)
[Int. Cent. Living, Aquatic Resour. Manage., Makati, Metro Manila, Philippines]

86-005662 Okamoto, H. and B. Kanenka. PRELIMINARY REPORT ON THE NEARSHORE FISHERY RESOURCE ASSESSMENT OF THE NORTHWESTERN HAWAIIAN ISLANDS, 1977-82. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands.* Vol. 1. p.123-143. 1984. FR 31(4)
[Dep. Land Nat. Resour., Div. Aquatic Sci., 1151 Punchbowl Street, Honolulu, HI 96813]

86-005663 Olson. DETERMINING FISHERIES MANAGEMENT UNITS. *In: Experiences in the Management of National Fishing Zones. OECD, Paris.* p. 29-38. 1984. FR 31(4)
[NMFS, Off. Int. Fish., Washington, D.C.]

MARINE MANAGEMENT AND RESEARCH (CONTINUED)

86-005664 Ono. JAPANESE FISHERIES UNDER THE NEW REGIME OF THE LAW OF THE SEA. *In: Experiences in the Management of National Fishing Zones. OECD, Paris.* p. 106-112. 1984. FR 31(4)
[Minist. Agric. Fac. Fish., Tokyo, Japan]

86-005665 Organization for Economic Co-Operation and Development. EXPERIENCES IN THE MANAGEMENT OF NATIONAL FISHING ZONES. *OECD* 159p. 1984. A collection of papers.--RS. FR 31(4)
[2, rue Andre-Pascal, 75775 Paris Cedex 16, France]

86-005666 Otsuki, T. A FUNDAMENTAL CONSIDERATION FOR THE FISHERY ENVIRONMENTAL IMPACT EVALUATION USING THE MATRIX NETWORK METHOD. *In: W. Kato, (ed.). Ocean Space Utilization '85: Proc. Int. Symp. Nihon Univ.* Vol. 2. 1985. p. 187-194. FR 31(4)
[Eng. Res. Inst., Yoa Harbor Works Co., Ltd., Anzen-Cho, Tsurumi-Ku, Yokohama, 230 Japan]

86-005667 Overholtz, W. J.; M. P. Sissenwine and S. H. Clark. RECRUITMENT VARIABILITY AND ITS IMPLICATION FOR MANAGING AND REBUILDING THE GEORGES BANK HADDOCK (*MELANOGRAMMUS AEGLEFINUS*) STOCK. *Can. J. Fish. Aquatic Sci.* 43(4):748-752. 1986. In English with French summ. FR 31(4)
[NMFS, Woods Hole Lab., Woods Hole, MA 02543]

86-005668 Pfund, R. T. INSTITUTIONAL POLICYMAKING IN THE MANAGEMENT OF FISHERIES: CASE STUDY--STATE OF HAWAII. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 1. p.427-457. 1984. FR 31(4)
[Univ. Hawaii Sea Grant Coll. Prog., 1000 Pope Rd., Honolulu, HI 96822]

86-005669 Pillai, P. P. and M. Srinath. ESTIMATION OF OVERALL FISHING INTENSITY OF TUNA LONGLINE FISHERY--YELLOWFIN TUNA (*THUNNUS ALBACARES*) FISHERY IN THE INDIAN OCEAN AS A CASE STUDY. *J. Appl. Ichthyol.* 2(3): 97-102. 1986. In English with French and German summ. FR 31(4)
[Cent. Mar. Fish. Res. Inst., Cochin 682031, India]

86-005670 Polovina, J. J.; R. B. Moffitt, S. Ralston; P. M. Shiota and H. A. Williams. FISHERIES RESOURCE ASSESSMENT OF THE MARIANA ARCHIPELAGO, 1982-85. *Mar. Fish. Rev.* 47(4):19-25. 1985. FR 31(4)
[NMFS, 2570 Dole St., Honolulu, HI 96822-2396]

86-005671 Powers, J. E.; P. Eldridge and S. P. Bannerot. ASPECTS OF KING MACKEREL POPULATION BIOLOGY AND THEIR EFFECT ON FISHERY MANAGEMENT STRATEGIES. *Proc. Gulf Caribb. Fish. Inst.* 36:106-116. 1984. FR 31(4)
[NMFS, Southeast Fish. Cent., Miami, FL 33149]

86-005672 Ralston, S. BIOLOGICAL CONSTRAINTS ON PRODUCTION AND RELATED MANAGEMENT ISSUES IN THE HAWAIIAN DEEPSEA HANDLINE FISHERY. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 1. p.248-264. 1984. FR 31(4)
[NMFS, P.O. Box 3830, Honolulu, HI 96812]

86-005673 Ray, D. PRESENT AND FUTURE USE AND MANAGEMENT OF HUMBOLDT BAY. *In: C. Toole and C. Diebel (eds.), Proc. Humboldt Bay Symp.* p. 77-83. 1982. FR 31(4)
[Calif. Coast. Comm., Eureka 95501]

MARINE MANAGEMENT AND RESEARCH (CONTINUED)

86-005674 Rutka, J. MANAGEMENT PLANS FOR FISHERY RESOURCES IN THE NORTHWESTERN HAWAIIAN ISLANDS. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 1. p.463-476. 1984. FR 31(4)
[West. Pac. Fish. Manage. Council, 1164 Bishop St., Suite 1608, Honolulu, HI 96813]

86-005675 Saetersdal. SHARED STOCKS AND FISHERY MANAGEMENT IN THE NORTH-EAST ATLANTIC UNDER TEH EEZ REGIME. *In: Experiences in the Management of National Fishing Zones. OECD, Paris.* p. 123-132. 1984. FR 31(4)
[Inst. Mar. Res., Bergen, Norway]

86-005676 Sakai, I. and K. Mitsuhashi. A CASE STUDY ON A PROJECT BY A FISHERIES COOPERATIVE. *In: W. Kato, (ed.). Ocean Space Utilization '85: Proc. Int. Symp. Nihon Univ.* Vol. 2. 1985. p. 179-186. FR 31(4)
[All Japan Fish. Port Assoc., Kasumigaseki, Chiyoda-Ku, Tokyo, 100 Japan]

86-005677 Sjoblom, V.; P. Niskanen; R. Parmanne; E. Ikonen and E. Aro. [CATCH QUOTAS FOR HERRING AND SPRAT IN 1985 AND CHANGES IN THE INTERNATIONAL RULES FOR THE BALTIC SEA FISHERIES.] *Tiedonantoja* No. 23. 28-32. 1985. In Swedish. FR 31(4)

86-005678 Sjoblom, V.; R. Parmanne; E. Aro; E. Ikonen; A. Rantala and J. P. Suuronen. [THE RESOLUTIONS AND RECOMMENDATIONS OF THE 72TH STATUTORY MEETING OF THE INTERNATIONAL COUNCIL FOR THE EXPOLORATION OF THE SEA (ICES).] *Tiedonantoja* No. 23. 20-27. 1985. In Swedish. FR 31(4)

86-005679 Sjoblom, V.; R. Parmanne; E. Aro, E. Ikonen and R. Hudd. [THE RESOLUTIONS AND RECOMMENDATIONS OF THE 71TH STATUTORY MEETING OF THE INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA (ICES).] *Tiedonantoja* No. 23. 12-19. 1985. In Swedish. FR 31(4)

86-005680 Soh, T. CONCEPTION OF OFFSHORE FISHERY BASE. *In: W. Kato, (ed.). Ocean Space Utilization '85: Proc. Int. Symp. Nihon Univ.* Vol. 2. 1985. p. 15-22. FR 31(4)
[Coll. Indus. Tech., Nihon Univ., Izumicho, Narashino, Chiba, 275 Japan]

86-005681 Sosa, M. and J. Garcia. [RESULTS OF EXPLORATORY FISHING IN THE SOUTHWEST CUBAN MARINE SHELF.] *Rev. Cubana Invest. Pesq.* 6(2):70-90. 1981. In Spanish with English summ. FR 31(4)
[Cent. Invest. Pesq., Havana, Cuba]

86-005682 STATUS OF ARTISANAL FISHERIES IN THE CARIBBEAN. *Proc. Gulf Caribb. Fish. Inst.* 36:11-104. 1984. A Collection of papers--RS. FR 31(4)

86-005683 Sturm, M. G. de L.; M. Julien and P. Salter. EXPLOITATION AND BIOLOGY OF THE MACKEREL FISHERY IN TRINIDAD. *Proc. Gulf Caribb. Fish. Inst.* 36:142-151. 1984. FR 31(4)
[Inst. Mar. Affr., P.O. Box 3160, Carenage, Trinidad and Tobago]

86-005684 Troadec and Maucorps. DEVELOPMENT OF FISHERIES MANAGEMENT METHODS IN THE CONTEXT OF THE NEW LAW OF THE SEA. *In: Experiences in the Management of National Fishing Zones. OECD, Paris.* p. 133-143. 1984.

MARINE MANAGEMENT AND RESEARCH (CONTINUED)

86-005684 CONTINUED FR 31(4)
[Inst. Sci. Tech. Peches Marit., Nantes, France]

86-005685 Uchida, R. N. and D. T. Tagami. GROUNDFISH FISHERIES AND RESEARCH IN THE VICINITY OF SEAMOUNTS IN THE NORTH PACIFIC OCEAN. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 2. p. 351. 1984. Abstract only. FR 31(4)
[NMFS, P.O. Box 3830, Honolulu, HI 96812]

86-005686 Uchiyama, J. H. and D. T. Tagami. LIFE HISTORY, DISTRIBUTION, AND ABUNDANCE OF BOTTOMFISHES IN THE NORTHWESTERN HAWAIIAN ISLANDS. *Proc. Second Symp. Resour. Invest. Northwest. Hawaiian Islands* Vol. 1. p.229-247. 1984. FR 31(4)
[NMFS, P.O. Box 3830, Honolulu, HI 96812]

86-005687 UNESCO. RESEARCH ON COASTAL MARINE SYSTEMS. *UNESCO Tech. Pap. Mar. Sci.* 47. 27p. 1986. FR 31(4)
[Place de Fontenoy, 75700 Paris, France]

86-005688 Warner, R.; J. Walters; A. Novak; T. Kuiper; S. Johnson; G. Allen; D. Miller; S. Harader; S. Thornton and R. Barnhart. HUMBOLDT BAY FISHERIES AND AQUACULTURE: PRESENT STATUS AND POTENTIAL DEVELOPMENT. *In: C. Toole and C. Diebel (eds.), Proc. Humboldt Bay Symp.* p. 106-116. 1982. FR 31(4)

86-005689 Weber, M. FEDERAL MARINE FISHERIES MANAGEMENT. *Audubon Wildl. Rep.* 1986. 267-344. 1986. FR 31(4)

UTILIZATION OF FISHERY PRODUCTS

86-005690 Persson, P. MUDDY OFF-FLAVOUR IN BREAM (*ABRAMIS BRAMA* L.) FROM THE PORVOO AREA, GULF OF FINLAND. *Int. Ver. Theor. Angew. Limnol. Verh.* 20(3):2098-2102. 1977. FR 31(4)

MISC. TECHNIQUES AND EQUIPMENT

86-005691 Bailey, R. S. COMPARISON WITH OTHER METHODS. *Rapp. P. V. Reun. Cons. Int. Explor. Mer* 184:119-122. 1984. FR 31(4)
[Mar. Lab., P.O. Box 101, Aberdeen AB9 8DB, Scotland]

86-005692 Blue, J. E. PHYSICAL CALIBRATION. *Rapp. P. V. Reun. Cons. Int. Explor. Mer* 184:19-24. 1984. FR 31(4)
[Naval Res. Lab., Underwater Sound Ref. Detachment, P.O. Box 8337, Orlando, FL 32856]

86-005693 Bohnsack, J. A. and S. P. Bannerot. A STATIONARY VISUAL CENSUS TECHNIQUE FOR QUANTITATIVELY ASSESSING COMMUNITY STRUCTURE OF CORAL REEF FISHES. *NOAA Tech. Rep. NMFS* 41. iii+15p. 1986. FR 31(4)
[NMFS, 75 Virginia Beach Dr., Miami, FL 33149]

MISC. TECHNIQUES AND EQUIPMENT (CONTINUED)

86-005694 Burczynski, J. J. and R. L. Johnson. APPLICATION OF DUAL-BEAM ACOUSTIC SURVEY TECHNIQUES TO LIMNETIC POPULATIONS OF JUVENILE SOCKEYE SALMON (*ONCORHYNCHUS NERKA*). *Can. J. Fish. Aquatic Sci.* 43(9): 1776-1788. 1986. In English with French summ. FR 31(4)
[BioSonics, Inc., 4520 Union Bay Place NE, Seattle, WA 98105]

86-005695 Carlson, T. J. QUESTIONS RELATING TO BEAMSHAPE. *Rapp. P. V. Reun. Cons. Int. Explor. Mer* 184:58-59. 1984. FR 31(4)
[BioSonics, Inc., 4520 Union Bay Place NE, Seattle, WA 98105]

86-005696 Craig, R. E. (ed.). FISHERIES ACOUSTICS. *Rapp. P. V. Reun. Cons. Int. Explor. Mer* 184:1-154. 1984. FR 31(4)

86-005697 Dalen, J. TARGET-STRENGTH EXPERIMENTAL STUDIES. *Rapp. P. V. Reun. Cons. Int. Explor. Mer* 184:68-72. 1984. FR 31(4)
[Inst. Mar. Res., P.O. Box 1870, N-5011 Bergen-Nordnes, Norway]

86-005698 Ehrenberg, J. E. OTHER PHYSICAL PRINCIPLES. *Rapp. P. V. Reun. Cons. Int. Explor. Mer* 184:60-61. 1984. FR 31(4)
[BioSonics, Inc., 4520 Union Bay Place NE, Seattle, WA 98105]

86-005699 Foote, K. G. SCHOOL AND MULTIPLE ECHOES. *Rapp. P. V. Reun. Cons. Int. Explor. Mer* 184:84-95. 1984. FR 31(4)
[Inst. Mar. Res., P.O. Box 1870, N-5011 Bergen-Nordnes, Norway]

86-005700 Foote, K. G.; A. Aglen and O. Nakken. MEASUREMENT OF FISH TARGET STRENGTH WITH A SPLIT-BEAM ECHO SOUNDER. *J. Acoust. Soc. Am.* 80(2): 612-621. 1986. FR 31(4)
[Inst. Mar. Res., 5011 Bergen, Norway]

86-005701 Gallaway, B. J. and P. Craig. DATA BANK FOR ARCTIC ANADROMOUS FISHES. *Alaska Sci. Conf.* 36:223. 1985. Abstract only. FR 31(4)
[LGL Ecol. Res. Assoc., Inc., 1410 Cavitt St., Bryan, TX 77801]

86-005702 Holland, K.; R. Brill; S. Ferguson; R. Chang and R. Yost. A SMALL VESSEL TECHNIQUE FOR TRACKING PELAGIC FISH. *Mar. Fish. Rev.* 47(4): 26-32. 1985. FR 31(4)
[Hawaii Inst. Mar. Biol., Univ. Hawaii, P.O. Box 1346, Coconut Island, Kaneohe 96744]

86-005703 Il'in, B. V. [DEVELOPMENT OF AN INFORMATION MODEL OF STUDIES OF BIOLOGICAL RESOURCES.] *IN: Mathematical and Informational Requirements for Natural Resource Studies. VNIRO*, 1985. p. 15-20. In Russian with English summ. FR 31(4)

86-005704 Il'in, B. V. and V. V. Pel'nik. [COMPOSITION, STRUCTURE AND FUNCTIONS OF AUTOMATIC INFORMATION SYSTEM OF USER'S FILE.] *IN: Mathematical and Informational Requirements for Natural Resource Studies. VNIRO*, 1985. p. 25-32. In Russian with English summ. FR 31(4)

86-005705 Jakupsstovu, H. SURVEY RESULTS AND APPLICATIONS. *Rapp. P. V. Reun. Cons. Int. Explor. Mer* 184:113-118. 1984. FR 31(4)
[Fiskiraunsoknarstovan, Defessartrod, 3800 Torshavn, Faroe Islands]

MISC. TECHNIQUES AND EQUIPMENT (CONTINUED)

86-005706 Jastrzebski, Z. T. TECHNIQUE OF MAKING FISH ILLUSTRATION 17. *Environ. Biol. Fishes* 16(4):256. 1986. FR 31(4)
[Field Mus. Nat. Hist., Roosevelt Rd. and Lake Shore Dr., Chicago, IL 60605-2496]

86-005707 Jastrzebski, Z. T. TECHNIQUE OF MAKING FISH ILLUSTRATION 21. *Environ. Biol. Fishes* 17(1):52. 1986. FR 31(4)
[Field Mus. Nat Hist., Roosevelt Rd. at Lake Shore Dr., Chicago, IL 60605-2496]

86-005708 Jastrzebski, Z. T. TECHNIQUE OF MAKING FISH ILLUSTRATION 20. *Environ. Biol. Fishes* 16(4):330. 1986. FR 31(4)
[Field Mus. Nat. Hist., Roosevelt Rd. and Lake Shore Dr., Chicago, IL 60605-2496]

86-005709 Kalikhman, I. L. [INDICATRIXES OF BACK ACCUSTIC SCATTERING BY FISH: THEIR ACCOUNT IN ECHO SURVEYS.] *IN: Mathematical and Informational Requirements for Natural Resource Studies. VNIRO*, 1985. p. 136-143. In Russian with English summ. FR 31(4)

86-005710 Kolmakov, I. B. [METHODS FOR AUTOMATIC CONTROL OF FISHERY INFORMATION.] *IN: Mathematical and Informational Requirements for Natural Resource Studies. VNIRO*, 1985. p. 32-54. In Russian with English summ. FR 31(4)

86-005711 Lavenberg, R. J.; G. E. McGowen and R. E. Woodsum. PRESERVATION AND CURATION. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 57-59. 1984. FR 31(4)

86-005712 Leslie, J. K. and J. E. Moore. CHANGES IN LENGTHS OF FIXED AND PRESERVED YOUNG FRESHWATER FISH. *Can. J. Fish. Aquatic Sci.* 43(5): 1079-1081. 1986. In English with French summ. FR 31(4)
[Great Lakes Fish. Res. Br., 867 Lakeshore Rd., P.O. Box 5050, Burlington, ON L7R 4A6, Canada]

86-005713 Lokshina, I. E. [ANALYSIS AND SYSTEMATIZATION OF INPUT DATA FOR PROGRAMS EMPLOYING MAJOR PROGNOSTIC MODELS.] *IN: Mathematical and Informational Requirements for Natural Resource Studies. VNIRO*, 1985. p. 143-160. In Russian with English summ. FR 31(4)

86-005714 MacLennan, D. N. and S. T. Forbes. FISHERIES ACOUSTICS: A REVIEW OF GENERAL PRINCIPLES. *Rapp. P. V. Reun. Cons. Int. Explor. Mer* 184:7-18. 1984. FR 31(4)
[Mar. Lab., P.O. Box 101, Aberdeen AB9 8DB, Scotland]

86-005715 Marchal, E. TARGET-STRENGTH MEASUREMENTS *IN SITU*. *Rapp. P. V. Reun. Cons. Int. Explor. Mer* 184:73-80. 1984. FR 31(4)
[ORSTOM-COB, B.P. 337, 29273 Brest Cedex, France]

86-005716 Matarese, A. C. and E. M. Sandknop. IDENTIFICATION OF FISH EGGS. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 27-31. 1984. FR 31(4)

86-005717 Midttun, L. FISH AND OTHER ORGANISMS AS ACOUSTIC TARGETS. *Rapp. P. V. Reun. Cons. Int. Explor. Mer* 184:25-33. 1984. FR 31(4)
[Inst. Mar. Res., P.O. Box 1870, 5011 Bergen-Nordnes, Norway]

MISC. TECHNIQUES AND EQUIPMENT (CONTINUED)

86-005718 Mitson, R. B. EQUIPMENT AND SYSTEMS. *Rapp. P. V. Reun. Cons. Int. Explor. Mer* 184:123-127. 1984. FR 31(4)
[Fish. Lab., Lowestoft, Suffolk NR33 0HT, England]

86-005719 Morgensteirn, B. CLASSIFICATION, SPECIAL TECHNIQUES, AND DATA HANDLING. *Rapp. P. V. Reun. Cons. Int. Explor. Mer* 184:96-112. 1984. FR 31(4)
[Hochsch. Bundeswehr Hamburg, Elektron. Nachrichtenverarbeit., Postfach 70 08 22, D-2000 Hamburg 70, West Germany]

86-005720 Mulligan, T. J. and R. Kieser. COMPARISON OF ACOUSTIC POPULATION ESTIMATES OF SALMON IN A LAKE WITH A WEIR COUNT. *Can. J. Fish. Aquatic Sci.* 43(7):1373-1385. 1986. In English with French summ. FR 31(4)
[Pac. Biol. Stn., Nanaimo, BC V9R 5K6, Canada]

86-005721 Olsen, K. SPECIAL ASPECTS OF TARGET STRENGTH (TS). *Rapp. P. V. Reun. Cons. Int. Explor. Mer* 184:81-83. 1984. FR 31(4)
[Inst. Fish., Univ. Tromso, P.O. Box 3083 Guleng, N-9001 Tromso, Norway]

86-005722 Pel'nik, V. V. and N. A. Soboleva. [CONTROL OF INFORMATION COLLECTED BY RESEARCH VESSELS.] *IN: Mathematical and Informational Requirements for Natural Resource Studies. VNIRO*, 1985. p. 20-25. In Russian with English summ. FR 31(4)

86-005723 Pope, J. G. STATISTICS AND SURVEY DESIGN. *Rapp. P. V. Reun. Cons. Int. Explor. Mer* 184:128-133. 1984. FR 31(4)
[Fish. Lab., Lowestoft, Suffolk NR33 0HT, England]

86-005724 Powles, H. and D. F. Markle. IDENTIFICATION OF LARVAE. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 31-33. 1984. FR 31(4)

86-005725 Richardson, C. L. TECHNIQUE OF MAKING FISH ILLUSTRATION 22. *Environ. Biol. Fishes* 17(2):153-154. 1986. FR 31(4)
[Field Mus. Nat. Hist., Roosevelt Rd. at Lake Shore Dr., Chicago, IL 60605-2496]

86-005726 Robinson, B. J. CALIBRATION OF EQUIPMENT. *Rapp. P. V. Reun. Cons. Int. Explor. Mer* 184:62-67. 1984. FR 31(4)
[Fish. Lab., Lowestoft, Suffolk NR33 0HT, England]

86-005727 Schmidt, K. A. TECHNIQUE OF MAKING FISH ILLUSTRATION 19. *Environ. Biol. Fishes* 16(4):294. 1986. FR 31(4)
[Hudsonia, Ltd., Bard College, Annandale, NY 12504]

86-005728 Shotton, R. and G. P. Bazigos. TECHNIQUES AND CONSIDERATIONS IN THE DESIGN OF ACOUSTIC SURVEYS. *Rapp. P. V. Reun. Cons. Int. Explor. Mer* 184:34-57. 1984. FR 31(4)
[Mar. Ecol. Lab., Bedford Inst. Oceanogr., Dartmouth, NS B2Y 4A2, Canada]

86-005729 Stone, D. R. III TECHNIQUE OF MAKING FISH ILLUSTRATION 18. *Environ. Biol. Fishes* 16(4):267-268. 1986. FR 31(4)
[Coastal Sci. Eng., Inc., 2611 Forest Dr., P.O. Box 8056, Columbia, SC 29202]

MISC. TECHNIQUES AND EQUIPMENT (CONTINUED)

86-005730 Sumida, B. Y.; B. B. Washington and W. A. Laroche. Illustrating FISH EGGS AND LARVAE. *Am. Soc. Ichthyol. Herpetol. Spec. Publ.* No. 1. p. 33-35. 1984. FR 31(4)

86-005731 Thiel, H. U. PLANKTON AND KRILL STUDIES. *Rapp. P. V. Reun. Cons. Int. Explor. Mer* 184:134-141. 1984. FR 31(4)
[Inst. Fangtech., Pahnaille 9, D-2000 Hamburg 50, West Germany]

86-005732 Thresher, R. E. and J. S. Gunn. COMPARATIVE ANALYSIS OF VISUAL CENSUS TECHINQUES FOR HIGHLY MOBILE, REEF-ASSOCIATED PISCIVORES (CARANGIDAE). *Environ. Biol. Fishes* 17(2):93-116. 1986. FR 31(4)
[CSIRO Mar. Lab., G.P.O. Box 1538, Hobart 7001, Tasmania, Australia]

86-005733 West, N.; K. Richardson; J. Griffin and F. J. Tanis. REMOTE SENSING FOR FISHERIES MANAGEMENT: PROSPECT AND PROMISES. *Proc. Gulf Caribb. Fish Inst.* 36:117-126. 1984 FR 31(4)
[Geogr. Mar. Affr., Univ. R.I., Kingston 02881]

REVIEWS, BIBLIOGRAPHIES, ETC.

86-005734 A Schnell, M. S.; D. J. Hough and S. M. Schnell (compilers). COMPREHENSIVE INDEX, 1952-1985. *Syst. Zool.* 35[2(suppl.)]):1-185. 1986. FR 31(4)

86-005735 Brownlow, J. and S. Rockwell. NORTHEAST FISHERIES CENTER PUBLICATIONS AND REPORTS 1985. *Woods Hole Lab. Ref. Doc.* No. 86-06. 39p. 1985. FR 31(4)
[NMFS, Northeast Fish. Cent., Woods Hole, MA 02543]

86-005736 Graham, L. K. AN INDEXED BIBLIOGRAPHY OF THE PADDLEFISH *(POLYODON SPATHULA). North Cent. Div. Am. Fish. Soc. Spec. Publ.* No.7. p.118-159. 1986. Available at $9.00 ($11.00 Foreign) from Joe G. Dillard, 1110 College Ave., Columbia, MO 65201. FR 31(4)
[Mo. Dep. Conserv., Columbia 65201]

86-005737 Haynes, C. M. and K. Hamilton. AN ANNOTATED BIBLIOGRAPHY OF THE FISHES OF COLORADO. *Colo. Div. Wildl. Spec. Rep.* No. 61. viii+66p. 1986. Available @ $1.00 from Colo. Div. Wildl., Denver]

A Hareri, G.
86-003315
Aasen, K. D.
86-005528
Abad, M. A.
86-005275
Abad, M. E.
86-003817
Abalmazova, M. G.
86-000787
86-003818
Abbott, J. C.
86-000470
Abdallah, I. S.
86-004944
Abdullah, M. S.
86-002103
Abe, H.
86-003819
Abe, K.
86-002535
Abe, S.
86-004266
Abe, T.
86-000366
Abel, P. D.
86-005225
Abella, T. A.
86-003410
86-003411
Abidin, A. Z.
86-004386
Able, K. W.
86-000750
86-001628
86-002216
86-003201
86-003676
86-003677
86-004188
Ablett, R. F.
86-003820
Aboussouan , A.
86-003678
Abraham, B. J.
86-000514
Abramova, Z. I.
86-003569
86-003570
Abrams, D.
86-005334
Abrams, P. A.
86-004303
Abramson, B.
86-001795
Abrazumov, V. A.
86-005497
Abrell, D. B.
86-002844
Abrosimova, N. A.
86-001311
Acere, T. O.
86-004225
Achord, S.
86-002464
Actis, L. A.
86-002939
Adachi, S.
86-000338
86-002536
Adam, H.
86-001493
86-003740
86-003816
Adamczyk, L. H.
86-004914

...CONTINUED...
Adamczyk, L. H.
86-004915
Adams, A. M.
86-001789
Adams, M. A.
86-001296
86-003524
Adams, S. M.
86-000977
Addison, R. F.
86-000989
86-003094
86-003146
Adelman, I. R.
86-001665
Adjei, E. L.
86-005075
Adkins, G.
86-001607
Adriano, M.
86-003386
Adron, J. W.
86-000084
Afonich, R. V.
86-001288
86-001395
Afzal, M.
86-003822
Agarwal, H. C.
86-003054
Agellon, L. B.
86-003821
Aggus, L. R.
86-005422
86-005613
86-005619
Aglen, A.
86-005700
Agoston, D. V.
86-000226
Aguayo H., M.
86-000713
Aguilera, O.
86-000813
Aguirre, P.
86-001316
86-003882
Aguis, C.
86-001396
Agulleiro, B.
86-003817
Agus, Z. S.
86-002579
Ahammad Sahib, I. K.
86-005304
Ahlstrom, E. H.
86-001393
86-003679
86-003758
86-004264
86-004782
86-004783
86-004836
86-004879
Ahmed, N.
86-002069
Ahmed, S. M.
86-000182
86-004944
Ahne, W.
86-002987
86-005047
86-005060
Aida, K.
86-000294

...CONTINUED...
Aida, K.
86-000383
86-002437
86-003942
Aijon, J.
86-002251
86-003696
Aiken, J. M.
86-004103
Ainley, D. G.
86-004478
Airdrie, D.
86-004996
Airdrie, D. W.
86-002961
Ajiad, A.
86-000708
Ajmal, M.
86-000937
Akashi, A.
86-004943
Akatsu, S.
86-000050
86-002103
86-002105
Akay, O.
86-001800
Akiba, Y.
86-003369
Akita, G. Y.
86-004574
Akiyama, T.
86-000061
Aksnes, A.
86-002290
Akster, H. A.
86-003680
Al-Abdul-Elah, K.
86-002105
Al-Abdul-Ellah, K. M.
86-002103
Al-Aradi, J.
86-000050
Al-Daham, N. K.
86-002020
Al-Harrasy, A. S. A.
86-003204
Al-Hassan, J. M.
86-003822
86-003823
Al-Hassan, L. A. J.
86-000182
86-000183
Al-Hinty, H. M.
86-002021
Al-Kadhomiy, N. K.
86-003724
Al-Kholy, A.
86-003315
Al-Ogaily, N. H.
86-000938
Al-Omar, M. A.
86-000938
Al-Sabti, K.
86-000978
Al-Waer, A.
86-002106
Al-Yamani, F.
86-001670
Al-Zarka, S.
86-002022
Alabaster, J. S.
86-005374
Alagaraja, K.
86-000565
Albers, C.
86-003824
Albers, M. H.
86-003195
Albers, W. D.
86-001658
Albetova, L. M.
86-004916
Albrect, R. J.
86-000730
Alcances, F. P.
86-003543
Alderdice, D. F.
86-000184
86-005108
Aldous, K. M.
86-001865
Aldrich, D. V.
86-002115
Aldrin, J. F.
86-002954
Aldunate, R.
86-002230
Alegret, L. M.
86-003785
Alekseenko, E. A.
86-003615
86-003616
Alekseev, S. S.
86-000124
Alevizon, W. S.
86-001067
86-001086
Alevras, R. A.
86-001068
Alexander, C. M.
86-005602
Alexander, G. R.
86-001191
86-003290
86-005444
Alexander, H. C.
86-003117
86-003128
Alexander, M. S.
86-001133
Alexander, V.
86-002212
Alexeev, S. S.
86-002580
Alexis, M. N.
86-000062
86-001312
86-002156
Alger, D. J.
86-004319
86-004633
Ali, A. M.
86-002217
Ali, M.
86-003822
Ali, M. A.
86-003701
Ali, S. S.
86-003681
Aliff, J. V.
86-004919
Allan, J. D.
86-004479
Allan, R. C.
86-000792
Allard, M.
86-000979
Allen, D. J.
86-001877

Allen, E. E.
86-000471
Allen, G.
86-005688
Allen, G. H.
86-004689
Allen, G. R.
86-004784
86-004845
86-004846
Allen, J. L.
86-002920
86-003166
86-005332
Allen, L. G.
86-000666
86-004785
Allen, M. A.
86-004226
Allen, P.
86-003968
Allen, P. M.
86-003271
Allen, S. G.
86-004478
Allendorf, F. W.
86-002590
86-004122
Alletson, D. J.
86-001232
Alliot, E.
86-000406
86-003525
Almaca, C.
86-000751
86-001762
86-001763
86-002890
Almad, T. A.
86-002289
Almeida, F. P.
86-004648
Aloj Totaro, E.
86-002291
86-003088
Alonso, M. T.
86-003696
Alpigiani, V.
86-000320
Alsagoff, S. A. L.
86-000021
Alt, K. T.
86-004227
Altringham, J. D.
86-000185
86-001397
86-002292
Altuf'ev, Y. V.
86-002094
Alvarez Leon, R.
86-003781
Alvarez-Pellitero, M. P.
86-000881
86-005023
86-005024
Alvarez, J. D.
86-000868
86-004983
Alvarez, M. C.
86-000448
Alverson, D. L.
86-003316
Alwan, A. K.
86-003059
Alzieu, C.
86-005226
Amandi, A.
86-005025
Amaoka, K.
86-003679
Amat Domenech, F.
86-003609
Amat, F.
86-000080
Ambak, M. A.
86-002810
Amborski, R. L.
86-001808
86-002963
Ambrose, D. A.
86-003759
Amelyutin, V. M.
86-003569
Amemiya, C. T.
86-001524
Amend, D. F.
86-002940
Amend, S.
86-001060
Amerio, M.
86-003526
Ames, W.
86-005239
Amin, N. E.
86-004944
Amin, O. M.
86-001821
86-002999
86-005076
Amirfathi, P.
86-001233
Amlacher, E.
86-004917
Amundson, C. H.
86-000318
86-001337
Anas, E.
86-001012
Andersen, F. O.
86-000297
Andersen, R.
86-001692
Andersen, S.
86-005261
Anderson-Buchou, C. D.
86-005303
Anderson, A. M.
86-001936
Anderson, D. P.
86-000420
86-000861
Anderson, E.
86-002000
Anderson, E. D.
86-001138
Anderson, G. R. V.
86-004304
Anderson, J. L.
86-004365
Anderson, M. E.
86-002842
86-004786
Anderson, M. J.
86-003682
Anderson, M. R.
86-001345
Anderson, P. J.
86-001658
Anderson, R.
86-005450
Anderson, R. C.
86-001822

Anderson, R. M.
86-000923
Anderson, R. S.
86-005423
Andersson, G.
86-005154
Andersson, K. G.
86-002772
Andersson, T.
86-000186
86-005227
Ando, M.
86-002293
Ando, S.
86-001398
86-002294
86-002295
Andrade, D. R.
86-002743
Andreasen, P.
86-001399
Andreev, N. N.
86-005335
Andreoni, K
86-002422
Andrews, J.
86-004939
Andrews, M.
86-001954
Andrews, P. C.
86-004004
Andrianov, D. P.
86-000596
Andrianov, V. V.
86-000286
Andriyashev, A. P.
86-004661
Andronico, F.
86-004170
Angelini, M.
86-003518
86-003519
Angermeier, P. L.
86-000122
86-000651
86-004383
Angus, R. A.
86-004089
86-005321
Anjum, F.
86-000980
Ankenbrandt, L.
86-000652
Anma, G.
86-003369
Annand, C.
86-002451
Annett, C. S.
86-001279
Annibal, S. R. P.
86-004662
Anson, J. F.
86-004096
Anthouard, M.
86-002149
86-003527
Antipova, T. V.
86-004480
Antoine, T.
86-002773
Antosch, L. M.
86-003196
Antychowicz, J.
86-002971
86-002972

...CONTINUED...
Antychowicz, J.
86-002973
Anuradha, S.
86-004787
Anzai, H.
86-004060
Aoki, T.
86-000862
86-002957
86-004943
86-004945
86-004946
86-004976
86-004993
86-005012
Aoyama, T.
86-000712
86-001277
86-001601
86-004078
Apostolopoulos, J.
86-002434
Appa Rao, T.
86-000187
86-000515
Appanna Sastry, Y.
86-001139
Appelbaum, S.
86-000063
86-000074
Appler, H. N.
86-000064
Appy, R. G.
86-001822
Aprahamian, M. W.
86-001790
Aps, R.
86-004623
86-004767
Aquino, R. T.
86-000987
Arai, K.
86-003964
86-004090
Arai, M.
86-005064
Arai, S.
86-000061
86-000345
Arakawa, C. K.
86-004947
Aranis, A.
86-000623
Araujo-Lima, C. A. R. M.
86-004228
Arbault, S.
86-004305
Arce, R. G.
86-003412
86-003413
86-003528
86-005228
Arcifa, M. S.
86-004481
86-005618
Ardizzone, G. D.
86-004306
86-005494
Arfi, R.
86-001343
Argento, S.
86-000088
Arias, A. M.
86-003482
Arieli, Y.
86-002166

...CONTINUED...
Arieli, Y.
86-003584
Arimoto, T.
86-001654
86-003257
Arkhipchuk, V. V.
86-004092
Arlot-Bonnemains, Y.
86-001434
Armbruster, E.
86-003291
Armor, C.
86-000788
Armour, C. L.
86-001933
86-003180
Armstrong, C.
86-000117
Armstrong, D. W.
86-004315
Armstrong, G. S.
86-005414
Armstrong, M. J.
86-001758
Armstrong, M. S.
86-003414
86-003450
Armstrong, N.
86-001652
Armstrong, R. H.
86-000516
Arnal, M.
86-000246
Arndt, B.
86-003074
Arnett, G. R.
86-005336
Arnold. D. E.
86-000939
Arnold, C.
86-002170
Arnold, C. R.
86-000610
86-002114
86-002745
86-005305
Arnold, J.
86-004939
Aro, E.
86-000581
86-005677
86-005678
86-005679
Aronstein, D.
86-002991
Arrizaga M., A.
86-000810
Arsan, O. M.
86-003825
Artemov, A. G.
86-004329
Arthington, A. H.
86-004229
Arthur, J. R.
86-002974
Arthur, J. W.
86-001042
Arturo Acero, P.
86-004160
86-004788
Artyukhin, E. N.
86-004789
Arunachalam, S.
86-001013
Arvola, L.
86-000589
Arya, S. N.
86-000906
Asada, T.
86-001454
Asahina, K.
86-000188
Asano, H.
86-003253
Asano, K.
86-003369
Asano, M.
86-003826
Asao, T.
86-004948
Asgard, T.
86-000060
86-003529
Ash, R.
86-003827
86-003970
Aspinwall, N.
86-002678
Association pour la Recherche it le Developpement de l'Aquaculture a Meze
86-003530
Astanculle, S.
86-003860
Astthorsson, O. S.
86-000653
Asztalos, B.
86-000981
Atchison, G. J.
86-005267
Atema, J.
86-002628
Atkinson, J. R.
86-001168
Atlantic Salmon Federation
86-005367
Atsuta, A.
86-005001
Atton, F. M.
86-002843
Atz, J. W.
86-002296
Aubree, A.
86-001890
Audet, C.
86-000189
86-004161
Auer, M. T.
86-003648
Augustyn, D.
86-003415
Aulio, K.
86-001230
Aumen, N. G.
86-005419
Austin, B.
86-000863
Austin, L. S.
86-000715
Austreng, E.
86-000060
86-003529
Avault, J. W., Jr.
86-002070
86-002093
AveLallemant, S.
86-000020
Avella, M.
86-000252
Avenant, A.
86-001823
Avendano Salas, T.
86-001299

Avery, E. L.
86-001629
Avila, G.
86-003738
Avtalion, R. R.
86-004105
Awakura, T.
86-002062
86-003000
Axelrod, H. R.
86-000005
Ayling, A. M.
86-004790
Aysola, P.
86-005294
Ayvazova, L. Y.
86-005229
Azeta, M.
86-000703
Azizi, S. Q.
86-000388
Azzali, M.
86-004440
Baatrup, E.
86-003683
Babaluk, J. A.
86-001617
Babbitt, J. K.
86-001313
Babey, G.
86-001937
Babich, H.
86-000982
86-001874
Babiker, M. M.
86-004387
Bacalbasa-Dobrovici, N.
86-005375
Backiel, T.
86-002023
86-004624
86-005376
Baddar, M. K.
86-002689
86-003205
Badenko, L. V.
86-001630
Baenninger, R.
86-004162
Bagarinao, T.
86-003001
86-004230
Bagdovitz, M. S.
86-002706
Bagge, P.
86-001744
86-004336
Baggerman, B.
86-000190
Bagliniere, J. L.
86-000599
Bagshaw, J.
86-003966
Bagshaw, J. W.
86-005033
Baguet, F.
86-001470
Bahr, B. A.
86-002297
Bailey, J. K.
86-002039
Bailey, K. M.
86-001602
86-001674
86-004231
Bailey, R. M.
86-001781
Bailey, R. S.
86-005691
Bailly, Y.
86-001350
86-001425
Bain, M. B.
86-001178
86-001234
Bainbridge, V.
86-004663
Bakaneev, V. S.
86-004163
Baker, B. I.
86-002298
Baker, C. D.
86-002844
Baker, I. J.
86-002050
Baker, J. A.
86-004664
Baker, J. P.
86-005155
Baker, R.
86-001368
Baker, R. L.
86-003644
Baker, W. A.
86-003753
Bakkala, R.
86-005625
Bakkala, R. G.
86-004232
Bakker, R.
86-003828
Baksi, S. M.
86-001525
Bakun, A.
86-001745
Balakhnin, I. A.
86-000191
Balarin, J. D.
86-000022
Balasubramanian, M. P.
86-001013
Balcer, M. D.
86-000654
86-000799
Baldwin, W. J.
86-002071
86-002097
86-002107
Ballaer, E. V.
86-000080
Ballah, L.
86-005626
Ballantyne, J. S.
86-003829
Ballard, W. W.
86-002218
86-002219
Ballatori, N.
86-003089
Ballintijn, C. M.
86-000192
Ballintijn, P.
86-003830
Balma, G.
86-003508
Balment, R. J.
86-002491
Balogun, J. K.
86-003280
Balon, E. G.
86-005466

Balon, E. K.
86-000131
86-001358
86-001359
86-001380
86-004482
86-004665
Balsamo, M.
86-002672
Balthrop, J. E.
86-000208
Baltosser, W. H.
86-000535
Baltz, D. M.
86-003314
Balushkin, A. V.
86-004791
Balvay, G.
86-003400
Balykin, P. A.
86-004388
Ban, T.
86-002234
Banerjee, A. C.
86-002153
Banner, C. R.
86-004949
Bannerot, S. P.
86-005627
86-005671
86-005693
Bannikov, A. F.
86-000814
Banno, J. E.
86-002084
Bannon, E.
86-004483
Banta, J. W.
86-004574
Baracco, A. W.
86-005528
Baragi, V.
86-003831
Baranes, A.
86-004317
Barannikova, I. A.
86-000006
86-001400
Baranova, V. P.
86-004484
Barans, C. A.
86-001267
Barbaro, A.
86-005026
Barbato, F.
86-003483
Barber, D. L.
86-001401
86-003832
86-003833
Barber, R. T.
86-001348
Barber, W.
86-004441
Barbera, J. C.
86-001875
Barbieri, G.
86-001631
Barbieri, M. C.
86-001631
Barbour, C. D.
86-003684
Barbour, S. E.
86-003624
Barefield, R. L.
86-002809

...CONTINUED...
Barefield, R. L.
86-004485
Barger, L. E.
86-000714
Barham, W. T.
86-000193
Barja, J. L.
86-004992
Barlow, G. W.
86-002674
Barlow, J.
86-001206
Barnabe-Quet, R.
86-000051
Barnabe, G.
86-000051
86-002014
86-003484
86-003485
86-003486
Barnes, A.
86-000853
86-005075
Barnes, L.
86-000815
Barnes, T. A.
86-001270
Barnhart, G. A.
86-005442
Barnhart, R.
86-005688
Barnhart, R. A.
86-001620
86-004689
Barnum, J. B.
86-003196
Barr, V.
86-004033
Barrak, N. A. A.
86-002811
Barret, D. J.
86-000194
Barrett, D. J.
86-000125
86-000195
Barrett, J. T.
86-003177
Barrington, J.
86-003924
Barron, M. G.
86-005286
Barry, T.
86-005529
Barry, T. P.
86-000196
Bart, H. L., Jr.
86-001603
86-002683
Bartell, S. M.
86-001976
Bartels, H.
86-003685
Barth, T.
86-003441
86-003442
Barthelemy, L.
86-000378
86-002299
86-002320
86-002514
Barthelmes, D.
86-001216
Bartley, D. M.
86-004091
Barton, B. A.
86-001402

...CONTINUED...
Barton, B. A.
86-002300
Barton, D. R.
86-001235
Barton, L. H.
86-004298
Barus, V.
86-004442
Barwick, D. H.
86-001169
Barwick, R. E.
86-002892
Basasibwaki, P.
86-004145
Basham, L. R.
86-001201
Bashchuk, S. V.
86-003943
Basimi, R. A.
86-001604
86-001659
Baska, F.
86-002982
Baskakova, T. E.
86-001752
Bassett, B. K.
86-003416
Bassi, R.
86-004170
Bassleer, R.
86-000140
Bastian, J.
86-002301
86-003904
Bateman, H. H.
86-003313
Bates, J. M.
86-005177
Bath, H.
86-004792
Batique, O.
86-002149
Battaglene, S. C.
86-005424
Batten, T. F. C.
86-002220
86-002225
86-002390
86-002391
86-003834
Battod, E. M.
86-004920
Baturin, V. L.
86-005458
86-005489
Bauchot, M.
86-004743
Baud, C. A.
86-003772
Baudin-Laurencin, F.
86-002113
Baudin, J.
86-000940
Baugh, T. M.
86-001934
86-003254
Baughman, J.
86-005443
Baum, E. T.
86-003292
Baumann, P. C.
86-003102
86-003136
Baur, R. J.
86-001955
Bautista, C.
86-003059
Bawazeer, A. S.
86-003206
86-003342
Bax, N. J.
86-001202
Baylon Grecco, O.
86-004675
Baylon Grecco, O. H.
86-004666
Bayne, D. R.
86-000025
86-003419
Bazigos, G. P.
86-001977
86-005728
Beacham, T. D.
86-000126
86-000789
86-001351
86-002221
86-002774
86-003979
86-004745
Beall, E.
86-004165
Beames, R. M.
86-003036
Beamish, F. W. H.
86-000715
86-001319
86-002350
86-002351
86-003167
86-003531
86-005281
Beamish, R. J.
86-000716
86-001605
86-002006
86-003230
86-004793
Bean, R. M.
86-001876
Beard, K. A.
86-003625
Beasley, D.
86-002302
Beatty, D. D.
86-003835
Beauchamp, J. J.
86-000977
Beauchamp, R. D.
86-000486
86-001442
Beaumier, B. A.
86-002875
Beck, A. D.
86-005231
Beck, L. T.
86-001334
Beckel, A. L.
86-001754
Beckenbach, A. T.
86-000468
86-002543
Becker, B.
86-002501
Becker, C. D.
86-004746
Beckhan, E. C. III
86-004794
Beckwitt, R.
86-000438

Beddington, J. R.
86-002877
Bedi, N.
86-001140
Bedier, E.
86-003487
86-003509
Beeckman, W.
86-004486
Behmer, D. J.
86-003643
Behnke, R. J.
86-004858
86-005337
86-005377
Behrend, K.
86-003686
Behrends, L. L.
86-001270
86-002581
Beitinger, T. L.
86-000197
Bekesi, L.
86-000894
Bekker, V. E.
86-000752
Belanger, S. E.
86-001877
Belaud, A.
86-004443
Belbenoit, P.
86-002629
Beleau, M. H.
86-005324
Belenky, M. A.
86-000198
Bell, C. C.
86-003836
Bell, D. V.
86-001935
Bell, G. R.
86-004950
Bell, J. D.
86-001075
86-004487
86-004667
86-004705
Bell, J. G.
86-003532
86-003539
Bell, L. J.
86-001632
Bell, M.
86-001085
Bell, M. A.
86-003687
Bell, M. V.
86-003533
Belliyappa, G.
86-005230
Belobrzheskii, V. A.
86-004431
Belpaire, C.
86-001834
86-005099
Belyaev, V. A.
86-004444
Bement, W.
86-000433
Bemis, W. E.
86-001352
Ben Tuvia, A.
86-004317
Ben-Tuvia, A.
86-000529
Ben-Yami, M.
86-001936
86-002013
86-005515
Bence, J. R.
86-000663
86-004488
Bencomo, I.
86-000042
86-003478
Bendell-Young, L. I.
86-005156
Benech, V.
86-004307
Benfey, T. J.
86-000451
86-002530
Bengston, D. A.
86-000655
Bengtson, D. A.
86-005231
Bengtsson, B.
86-005232
Benjamin, M.
86-002222
Benke, A. C.
86-001236
Bennett, M. B.
86-003837
Bennett, R. O.
86-000984
86-002303
Bennett, W. N.
86-005233
Bentley, B.
86-004091
Bentzen, E.
86-003653
Benville, P. E., Jr.
86-000985
Berdyshev, G. D.
86-004092
Berg Lea, T.
86-002101
Berg, J.
86-004622
Berg, L.
86-000941
Berg, O. K.
86-001606
Berge, D.
86-004452
Berger, L.
86-003953
Berger, V. Y.
86-004034
Bergersen, E. P.
86-001147
86-001175
86-004370
Berggren, T. J.
86-000526
Berghahn, R.
86-002707
Bergin, J. D.
86-005581
Berglund, A.
86-002630
Bergman, H.
86-003055
Bergman, P. K.
86-003169
Bergot, P.
86-003534
86-003536

...CONTINUED...
Bergot, P.
86-003537
86-003555
86-003702
86-003864
86-003882
Bergstrom, E.
86-005300
Berka, R.
86-003589
Berkes, F.
86-001217
86-001218
Berman, I. S.
86-000587
Bermingham, E.
86-004093
Bermingham, E. L.
86-000621
Bern, H. A.
86-000280
86-000344
86-000380
86-000393
86-004015
86-005240
Bernard, H. J.
86-001660
Berndtson, A. K.
86-000199
Berneir, L. M. J.
86-005141
Bernier, M. F.
86-003246
Berra, T. M.
86-003143
86-004667
Berrebi, P.
86-005135
Berrie, A. D.
86-005077
Berry, C.
86-001937
Berry, C. H., Jr.
86-002403
Berry, C. R.
86-002404
Berry, C. R., Jr.
86-004046
Berry, F. H.
86-004873
Berry, W. J.
86-002187
Bertelsen, E.
86-004795
86-004796
86-004797
Berthiaume, L.
86-001820
Bertmar, G.
86-004233
Bertollo, L. A. C.
86-001529
86-002582
Berube, M.
86-005078
Besporozvannykh, V. V.
86-000846
Best, C. D.
86-000318
86-001337
Best, E. A.
86-002775
86-004234
Betal'yants, K. Y.
86-004164
Betchaku, T.
86-002223
Bettoli, P. W.
86-000472
86-003372
Betz, L.
86-003093
Beveridge, M. C. M.
86-002056
Beverley-Burton, M.
86-000920
86-005079
Beverton, R. J. H.
86-002877
Bewers, J. M.
86-003056
86-005226
Beyenbach, K. W.
86-000370
Bezerra da Silva, A.
86-003453
Bezerra e Silva, J. W.
86-003453
86-003464
Bhanot, K. K.
86-000033
Bharathi, D.
86-000200
86-000219
Bhaskar, M.
86-000200
86-000219
86-003090
Bhaumik, U.
86-005279
Bianchi, E.
86-004374
Bianchini, M. L.
86-002770
86-005433
Biddinger, G. R.
86-001860
Bidwell, C. A.
86-001526
Bielak, A. T.
86-002304
Bieniarz, K.
86-000201
86-001292
86-002427
86-003838
Bier, J. W.
86-003002
Biesinger, K. E.
86-003091
Biester, G.
86-002583
Biette, R. M.
86-001235
Bietz, B. F.
86-003186
Bignami, S.
86-003373
86-005080
86-005100
Biley, H.
86-001711
Billard, R.
86-000023
86-000210
86-003374
86-003375
86-003400
86-003417
86-003423

...CONTINUED...
Billard, R.
86-003448
86-003484
86-003488
86-003523
86-003839
86-004113
Bills, T. D.
86-001043
Bilqees, F. M.
86-005081
86-005114
Bilton, H. T.
86-003225
86-004629
Bilyk, T. I.
86-003958
Binkowski, F. P.
86-000178
86-000517
86-003392
Bird, D. J.
86-002298
Bird, J. L.
86-002224
Birge, W J.
86-000983
Birkhead, W. S.
86-005582
Birks, E. K.
86-003840
Birman, I. B.
86-002878
Biro, P.
86-001219
Birt, T. P.
86-001527
86-003841
Bischoff, R. J.
86-000597
Bishop, A. B.
86-001233
Bishop, G.
86-004925
Bishop, R.
86-001229
Bisson, P. A.
86-004668
86-005378
Bitterlich, G.
86-000202
86-000203
Bittorf, T.
86-002418
Bivens, R. D.
86-000753
Bivin, W. M.
86-005619
Bizri, M.
86-003842
Bizri, Y.
86-003842
Bjerring, H. C.
86-002891
86-004798
Bjorklund, I.
86-001910
Bjornn, T. C.
86-005379
86-005482
Blachuta, J.
86-002840
86-004094
Black, G. A.
86-001553

...CONTINUED...
Black, G. A.
86-001712
Black, G. F.
86-001220
Black, J.
86-005234
Black, J. A.
86-000983
Black, P.
86-005234
Blackwell, J. W.
86-001135
Blahm, T. H.
86-001662
86-002690
Blair, C. H.
86-001085
Blakey, L. S.
86-005404
Blanc, F.
86-002014
Blanc, J. M.
86-002045
86-003949
Blanchard, F. A.
86-001009
Blasco, J.
86-003907
Blau, G. E.
86-000942
Blaxhall, P. C.
86-001403
Blaxter, J. H. S.
86-004236
86-004237
86-004489
Blaylock, W. M.
86-005535
Blazer, V. S.
86-000864
86-001807
Bleher, H.
86-001323
86-001713
86-002172
86-002173
86-004669
Bleken, E.
86-004215
Blezer, V. Z.
86-001036
Bloch, B.
86-005082
Block, B. A.
86-000204
86-002305
Block, M.
86-005235
Blue, J. E.
86-005692
Blum, F.
86-003334
Blum, P.
86-001353
Blum, V.
86-000374
Blumer, L. S.
86-000598
86-002744
86-004389
Blumm, M. C.
86-003293
Blundon, R.
86-001173
Blunt, B. R.
86-005270

Blust, R.
86-002353
86-002553
Bly, J. E.
86-002306
86-002307
Bninska, M.
86-003281
86-005184
86-005571
Bobovnikova, T. I.
86-005157
Boccignone, M.
86-003546
Bocek, A.
86-002084
Bocharova, T. A.
86-004918
Bock, F.
86-005234
Bock, M.
86-004799
Boczon, K.
86-003002
Bodaly, R. A.
86-004238
Bodennec, G.
86-005302
Bodle, J. E.
86-004086
Bodznick, D.
86-002503
Boehlert, G. W.
86-000717
86-000718
86-001715
86-003688
86-003902
Boehm, H.
86-005004
Boehm, P. D.
86-003083
Boehne, P. L.
86-003191
Boekelheide, R. J.
86-004478
Boersen, G.
86-003376
Boetius, I.
86-001404
Boetius, J.
86-001404
86-001581
86-001714
86-001716
Boeuf, G.
86-002046
86-002407
Boggio, S. M.
86-001313
Boggs, C. H.
86-004573
Bogitsh, B. J.
86-001824
Bohle, B.
86-005158
Bohling, P.
86-000628
86-001264
Bohm, K. H.
86-005003
Bohnsack, J. A.
86-001070
86-005693
Boisneau, P.
86-000599
Boize, B. J.
86-005077
Boldyrev, A. M.
86-000539
Boldyrev, V. L.
86-000794
Bolla, S.
86-000205
Bolt, M. R.
86-002280
Bolton, J. P.
86-002308
Bond, C. E.
86-000560
86-001781
86-004239
Bondari, K.
86-000024
Bonfils, J.
86-003508
Bonga, S. E. W.
86-001431
Bonner, J. C.
86-005330
Bonner, J. S.
86-003629
Bonnett, M. L.
86-000796
Bonneville Power Administration
86-001196
Booke, H. E.
86-001178
86-001234
Boon, J. P.
86-000986
Boord, R. L.
86-000206
Booth, C. A.
86-005349
Booth, D. J.
86-000656
86-001694
Booth, L. C.
86-004919
Boraas, M. E.
86-005233
Borenfreund, E.
86-000982
86-001874
Borg, B.
86-000207
86-002309
Borgmann, U.
86-001405
86-005236
Borgstrom, R.
86-004490
Borisovets, E. E.
86-000127
Borisyuk, A. B.
86-000244
Borkowski, W. K.
86-000743
Bornancin, M.
86-000252
Borodulina, O. D.
86-004491
Borseman, J.
86-003317
Bortone, S. A.
86-001069
Boscardim, A. T.
86-002369
Bouck, G. R.
86-002181

Bouck, G. R.
86-001364
Boudreault-Chateauvert, C.
86-001435
Bouhours, J. F.
86-003842
Bourke, R.
86-002163
Bourquin, O.
86-004670
Boutilier, R. G.
86-002310
86-002496
Boutry, E.
86-003391
Bouvet, Y.
86-004346
86-005583
Bouzehouane, U.
86-002286
Bowen, C. A. II
86-001737
Bowen, S. H.
86-000602
Bower, S. M.
86-000882
86-001811
86-001825
Bowering , W. R.
86-004308
Bowers, J. A.
86-003649
Bowlby, J. N.
86-004747
Bowler, B.
86-002694
Bowman, R. E.
86-004492
Bowser, P. R.
86-000895
86-000896
86-000904
86-000907
86-001791
Boxrucker, J.
86-002812
Boyce, N. P.
86-000883
Boyd, A. J.
86-001758
Boyd, C. E.
86-000025
86-000116
86-002074
86-002182
86-003414
86-003450
86-005611
Boyer, J. L.
86-003089
Boyev, A. A.
86-001400
Boyle, J. A.
86-000903
86-000904
Boylen, C. W.
86-005210
Boynton, W. R.
86-003654
Boytsov, M. P.
86-005380
Bozeman, E. L.
86-000473
Brabrand, A.
86-003626

...CONTINUED...
Brabrand, A.
86-004493
Bradbury, S. P.
86-003092
Braddon-Galloway, S.
86-000208
86-001406
Bradford, C. S.
86-003996
Bradford, M. J.
86-004365
Bradley, R. W.
86-001854
86-001878
86-001915
Bradley, T. M.
86-003038
Brady, Y. J.
86-002988
Bragg, R. R.
86-004951
Brainard, R. E.
86-001344
Brakke, D. F.
86-005247
Brammal, P. D.
86-001271
Brammall, P. D.
86-001272
86-001273
86-001274
Branco, R.
86-004956
Brander, K.
86-004625
Brander, K. M.
86-004309
Brandt, S. B.
86-000657
86-000790
86-001221
86-001754
86-002879
Brannon, E. L.
86-001313
86-002144
86-002679
Branson, B. A.
86-000754
Branson, D. R.
86-000942
Brantley, T.
86-003732
Brattey, J.
86-005106
Bray, R. A.
86-001826
86-005083
Bray, R. N.
86-000719
Brayton, S. L.
86-000586
Brazo, D. C.
86-002853
Breck, J. E.
86-001976
Brenden, R. A.
86-002941
Brenkert, A. L.
86-001976
Bres, M.
86-004287
Bres, O.
86-000209
Bresch, H.
86-005237

Brethes, J. F.
86-000746
Breton, B.
86-000210
86-002420
86-002452
86-002453
86-002562
86-003957
Brett, J. R.
86-004310
86-004635
Brett, M.
86-000951
86-001750
Breucker, H.
86-003802
Brewer, G. D.
86-001653
Brewinska, B.
86-003252
Brick, E. M.
86-003195
Brick, R. W.
86-002072
Briggs, P. T.
86-003057
Brighenti, L.
86-002486
Brill, R.
86-005702
Brill, R. W.
86-001515
86-003819
Bristol, J. R.
86-001817
Bristow, E. T.
86-005584
British Columbia Ministry of Environment
86-001941
Britski, H. A.
86-002917
Brivio, M.
86-004170
Broach, J. I.
86-002140
Brock, R. E.
86-001071
Brodsky, B.
86-004035
Broek, D. L.
86-004035
Bromage, N. R.
86-003577
Bromley, P. J.
86-002108
86-003535
86-004404
Bromley, P. T.
86-001241
Bronmark, C.
86-002772
Brooke, L. T.
86-000799
86-005303
Brooker, J. R.
86-001781
Brooks, A. S
86-005233
Brooks, A. S.
86-001455
86-001456
Brooks, D.
86-000910
Brooks, D. E.
86-002965
Brooks, D. R.
86-002921
Brooks, H. A.
86-000211
Brooks, J. E.
86-005477
Brooks, M.
86-000305
Brooks, R. P.
86-003058
Brosseau, G. A.
86-001108
Brostoff, W. N.
86-001091
Brothers, E. B.
86-000621
86-003689
Broughton, N. M.
86-002848
Brouillet, S.
86-003509
Browder, J. A.
86-004286
Browman, H. I.
86-004558
Browman, M. W.
86-000212
Brown, A.
86-005582
Brown, A. F.
86-003003
86-005084
Brown, A. V.
86-000786
Brown, B. E.
86-005541
Brown, C. A.
86-000724
Brown, C. L.
86-004769
Brown, C. R.
86-000213
Brown, D. C.
86-002609
Brown, D. W.
86-005186
Brown, E. E.
86-002109
Brown, E. H., Jr.
86-000576
Brown, G. W., Jr.
86-003843
Brown, J. A.
86-000128
86-000474
86-000658
86-001407
86-002359
86-002777
Brown, J. C.
86-000425
Brown, J. D.
86-001058
Brown, K. L.
86-004095
Brown, M. W.
86-001029
86-005159
Brown, N. J.
86-002745
Brown, P. B.
86-002158
Brown, S. B.
86-002311

...CONTINUED...
Brown, S. B.
86-005238
86-005310
Brown, S. G.
86-003843
Brown, S. W.
86-000025
86-003025
Brownlow, J.
86-005735
Bruce-Allen, L.
86-005079
Bruce, W. J.
86-001712
Bruch, R. M.
86-000566
Brugam, R. B.
86-002197
Bruger, G. E.
86-002145
Bruin, W.
86-002054
Brumbaugh, W. G.
86-000943
Brun, G.
86-004626
Brune, D. E.
86-002037
86-002183
Brunel, G.
86-003489
Bruno, D. W.
86-001827
86-001879
86-004952
86-004953
86-004954
Bruno, N. A.
86-001055
Bruno, R. A.
86-003083
Brunson, M. W.
86-000026
86-005467
Brusca, R. C.
86-000697
Brusher, H. A.
86-005425
Brusle, J.
86-003490
86-004351
86-004583
Bruss, R.
86-004800
Brusven, M. A.
86-002631
Bruton, M. N.
86-000695
86-005466
Bryan, C. F.
86-000946
Bryant, L. D.
86-001072
Bryant, M. D.
86-001073
86-005585
Bryant, M., Jr.
86-002942
Bryant, R. M., Jr.
86-003184
Bryant, R. T.
86-003813
Bryantsev, V. A.
86-000791
86-003617

...CONTINUED...
Bryantsev, V. A.
86-003621
Brzuska, E.
86-003418
Bubien, J. K.
86-001880
Buck, D. H.
86-002813
Buck, H.
86-002584
Bucke, D.
86-000908
86-003004
86-005027
Buckingham, J. C.
86-002298
Buckler, D. R.
86-001884
86-001902
86-005241
Buckley, J.
86-000629
86-004390
Buckley, J. A.
86-000987
Buckley, R. M.
86-001074
86-003181
Bucknall, R. M.
86-001407
Buckner, R. L.
86-002921
Buckner, S. C.
86-002921
Buddington, R. K.
86-000659
86-001408
86-002066
86-002312
Bugaev, V. F.
86-000720
86-003690
Buikema, A. L., Jr.
86-005250
Buisson, B.
86-004166
Bukhanevich, I. B.
86-001968
Bukovskaya, O. S.
86-001400
Bulacso, R. P.
86-003410
86-003411
Bulgakova, T. I.
86-005542
Bulger, A. J.
86-000214
86-002313
Bulkey, R. V.
86-002632
Bulkowski-Cummings, L.
86-003445
Bullock, A. M.
86-000884
Bullock, G. L.
86-000865
86-000866
86-000872
86-000897
86-002922
86-002943
86-002947
86-002948
86-002952
Bullock, L. H.
86-000912

Bunch, Z. E.
86-000722
Bur, M. T.
86-004714
Buracchi, G.
86-004440
Burch, R. K.
86-002837
Burcham, S. T.
86-002315
Burcham, T. S.
86-002314
86-003848
Burchmore, J. J.
86-001075
86-004487
Burczynski, J. J.
86-005694
Burd, A. C.
86-005490
Burdeyron, H.
86-004166
Burdick, M.
86-004066
Burger, C. V.
86-005586
Burgess, E. A.
86-002316
Burgess, G. H.
86-001366
Burgess, W. E.
86-001324
Burggren, W.
86-003844
Burgner, R. L.
86-003318
Burgu, A.
86-001800
Burke, J. S.
86-003419
Burke, T.
86-004423
Burkett, D. P.
86-003306
Burkett, T.
86-005582
Burkle, O.
86-004521
Burks, S. L.
86-003138
Burlakov, A. B.
86-001409
86-003845
Burleson, M. L.
86-000215
Burney, G. M.
86-005251
Burns, E. R.
86-004096
Burns, J. R.
86-000142
86-000216
Burr, B. M.
86-004240
86-004299
Burreson, E. M.
86-005149
Burt, M. D. B.
86-001967
Burtis, C. A.
86-000977
Burton, D. T.
86-005262
Burton, J.
86-003209
Burton, S. F.
86-000759
Burykin, Y. B.
86-003263
86-003752
Burzawa-Gerard, E.
86-003900
Busch, C. D.
86-002184
86-002185
Busdosh, M.
86-005338
86-005339
Bush, C. A.
86-002315
Bushnell, P. G
86-002650
Buso, D. C.
86-005160
Bustard, D. R.
86-005381
Butler, D. G.
86-002317
Butler, J. L.
86-001695
Butler, P. J.
86-002258
Butler, R. S.
86-000755
Butskaya, N. A.
86-002318
Buttiker, B.
86-004391
Buttke, T. M.
86-002307
Buttner, J. K.
86-003420
Buxton, C. D.
86-002680
Buynak, G. L.
86-002633
86-003234
Bye, V. J.
86-000387
Byrd, I. B.
86-003235
Byrne, D. M.
86-004241
Byrnes, T.
86-001828
86-003005
86-003006
86-005085
Byron, G.
86-001859
Cable, R. M.
86-005086
Caceres-Martinez, C.
86-002132
Cada, G. F.
86-003894
Caddy, J. F.
86-001977
Cadena-Roa, M.
86-002132
Cagan, R. H.
86-004167
Caggiano, M.
86-005057
Caillere, L.
86-004183
Cailliet, G.
86-002646
Cailliet, G. M.
86-004627

...CONTINUED...
Cailliet, G. M.
86-004647
Cairns, D.
86-001746
Cairns, J., Jr.
86-001461
86-005250
Cake, M. H.
86-002459
Calabrese, L.
86-002381
Calbert, H. E.
86-002146
86-002754
Caldeira, M. T.
86-003075
Calder, D. R.
86-002387
Caldwell, C. A.
86-002168
Cali, A.
86-002975
Callahan, M. W.
86-004574
Callard, G.
86-000349
86-002319
Callard, G. V.
86-000363
Callard, I. P.
86-000363
86-000364
86-002440
Caloro, P.
86-000416
Camacho, A.
86-004097
Cambray, J. A.
86-000518
86-001354
Cambre, M. L.
86-002225
Cambrony, M.
86-004801
Cameron, J. N.
86-000129
86-000213
86-003846
86-003847
Cameron, R.
86-004724
Cammarata, P.
86-003920
Campbell, C. E.
86-003650
Campbell, D.
86-000027
Campbell, D. E.
86-001945
Campbell, K. S. W.
86-002892
Campbell, P. G. C.
86-001881
Campbell, P. J.
86-003627
Campbell, S. G.
86-002215
Campillo, A.
86-003493
Campton, D. E.
86-000439
Camus, P.
86-004305
Canale, R. P.
86-003648
Cane, A.
86-005408
Cantrelle, I.
86-004445
Canty, A. A.
86-000217
Canzonier, W. J.
86-005042
Cao, C. H.
86-003112
Capelli, G. M.
86-003646
Caple, G.
86-003848
Caprio, J.
86-004168
Caracheo, F.
86-000373
Caragitsou, E.
86-002776
Carbone, P.
86-004151
Cardenete, G.
86-001286
Cardenette, G.
86-001500
Carey, F. G.
86-002305
86-003849
Carini, G.
86-003526
Carlander, K. D.
86-004311
86-004628
Carlberg, G. E.
86-005161
86-005232
Carlberg, J. M.
86-001052
Carlile, D. W.
86-004746
Carline, R. F.
86-002669
Carls, M. G.
86-004054
Carlsen, D. L.
86-001108
Carlson, C.
86-004439
Carlson, C. A.
86-004725
Carlson, D. M.
86-000519
86-002820
Carlson, H. R.
86-000630
86-004312
Carlson, P. C.
86-000122
Carlson, R. E.
86-002210
Carlson, T. J.
86-005695
Carlton, F. E.
86-003319
86-003320
Carmichael, G. J.
86-002073
86-003160
86-003421
86-003467
86-005456
86-005465
Caroff, J.
86-002320

...CONTINUED...
Caroff, J.
86-002514
Carolane, R.
86-002992
Carpene, E.
86-003852
Carpenter, A. L.
86-001076
86-001077
86-001094
Carpenter, K. E.
86-004859
Carpenter, R.
86-000266
Carpenter, R. M.
86-003380
86-003381
86-003390
Carpentier, P.
86-003491
Carr, J. E.
86-000475
86-002321
Carr, M. G.
86-000475
86-002321
Carraro, S.
86-002773
Carre, D. A.
86-002435
Carrick, S.
86-002491
Carrieri, A.
86-004250
Carrillo De Albornoz, C.
86-004313
Carrillo, M.
86-001355
86-003850
Carroll, R. J.
86-001269
86-005565
Cartaya, R.
86-005151
Carter, H. J.
86-002842
Carter, J. C. H.
86-003673
86-005162
Carter, J. W.
86-001076
86-001077
86-001094
Caruso, J. H.
86-000816
Carver, D. C.
86-002088
Casavola, N.
86-003403
Cascio, P. L.
86-003165
Casey, J. G.
86-001141
86-003849
86-004671
Casey, J. J.
86-000684
Cashon, R.
86-002609
Casillas, E.
86-000909
86-001917
86-005239
Cassani, J. R.
86-004098
Cassano, G.
86-003851
Cassarini-Dunier, M.
86-001799
Castagnoli, N.
86-003998
Casti, A.
86-003860
Castle, P. H. J.
86-003691
86-004802
Castleberry, D. T.
86-004748
Castonguay, M.
86-004446
Castro, E. F. T.
86-002743
Castro, W. E.
86-002186
Catalano, E.
86-002585
86-004151
Catchings, E. D.
86-001142
Caton, W. E.
86-004098
Cattani, O.
86-003852
Caubere, J. L.
86-003492
Cavaliere, A.
86-000053
Cave, J. D.
86-003372
Cavender, T. M.
86-001356
86-001357
86-001765
86-001766
86-001783
Cavigli, J. R.
86-003255
Ceccagno, C.
86-004170
Ceccaldi, H. J.
86-003510
Ceccarelli, P. S.
86-000844
Cech, J. J.
86-004748
Cech, J. J., Jr.
86-000327
Cederholm, C. J.
86-005396
Cejpa, A.
86-003493
Cervelli, M.
86-004099
86-004100
Cervinski, M.
86-002013
Ceskleba, D. G.
86-000020
Chabot, F.
86-004494
Chadwick, E. M. P.
86-002708
86-003170
86-004314
Chadwick, P.
86-004356
Chaga, O. Y.
86-004034
Chagas, C.
86-001486

Chagnon, N. L.
86-001882
Chakraborti, A.
86-000218
Chakraborti, P. K.
86-000033
86-000218
Chakraborty, N. M.
86-002153
Chakrapani, B. K.
86-000742
Chalanchuk, S. M.
86-000944
86-001479
Chalapathy Rao, M. V.
86-000219
Chamberlain, A. J.
86-001284
Chamberlain, G.
86-002110
Chamberlain, G. W.
86-002111
Chambert, C.
86-004166
Champigneulle, A.
86-003391
86-004154
Chan, B.
86-000163
Chan, L.
86-002991
Chan, S.
86-005186
Chan, S. J.
86-003875
Chan, S. T. H.
86-002479
Chance, B.
86-002322
Chance, M. R.
86-002322
Chandler, C. R.
86-001078
86-001118
Chandra, K. J.
86-005087
86-005088
Chang-Kue, K. J. T.
86-000631
Chang, B. D.
86-004272
Chang, D.
86-002552
86-003093
Chang, E. M. L.
86-003030
Chang, K.
86-001079
Chang, R.
86-005702
Chang, S.
86-000491
Chanin, Y.
86-000052
Chanter, D. O.
86-005251
Chao, D.
86-003007
Chapleau, F.
86-000817
Chapman, D. B.
86-001855
Chapman, D. W.
86-002762
86-004392
Chapman, G. A.
86-005247
Chapman, P.
86-001143
Chappall, L. H.
86-005147
Chappell, L. H.
86-003044
86-005146
Charbonnier, D.
86-005643
Charlon, N.
86-003534
86-003536
86-003537
Charney, A. N.
86-002323
Charpentier, G.
86-005258
Chaschin, A. K.
86-004318
Chashchin, A. K.
86-002709
86-004343
Chatain, B.
86-002226
86-003487
Chatterjee, G. N.
86-000033
Chatterjee, K.
86-000220
Chaudhuri, K.
86-005543
Chauvet, C.
86-002014
86-003494
Chavez, F. P.
86-001348
Chavez, M.
86-004420
Chawla, P.
86-003820
Chebanov, M. S.
86-001291
86-001946
Cheberkus, V. I.
86-003622
Chebotareva, M. A.
86-004082
Chechenin, S. C.
86-000564
Checkley, D. M., Jr.
86-002224
Chen Xinyu
86-003692
Chen, C.
86-000774
Chen, F. Y.
86-002112
Chen, L.
86-003693
Chen, S.
86-005013
86-005120
Chen, S. M.
86-003114
86-003115
Chen, T.
86-002085
Chen, T. T.
86-001883
86-002622
86-003821
Chengalath, R.
86-005162

Cherfas, N. B.
86-001532
Chernenko, E. V.
86-002586
Chernigovskaya, E. V.
86-000198
Chernoff, B.
86-001764
86-003684
Cherny, E. I.
86-005340
Chernyaev, Z. A.
86-002746
Chernyshev, V. B.
86-001314
Cherr, G. N.
86-000221
86-003443
Cherry, D. S.
86-001461
Chervinski, J.
86-000052
86-002227
86-002324
86-004803
Chervova, L. S.
86-000222
86-002325
Chess, E. K.
86-001876
Chessa, L. A.
86-004447
Chester, A. J.
86-001203
86-001710
Chestnoj, V. N.
86-005491
86-005492
Cheung, P. J.
86-001829
Chevalier, G.
86-000130
86-005240
Chevalier, R.
86-002014
Chevassus, B.
86-002045
Chevelya, V. I.
86-003774
Cheverie, J. C.
86-001450
Chiba, K.
86-004649
Chiba, M.
86-000988
Chien, C.
86-005019
Chikhachev, A. S.
86-001289
Chikhacheva, V. P.
86-001630
Chikuni, S.
86-005628
Chilcote, M. W.
86-004271
86-004668
Childers, W. F.
86-001542
86-003306
Chilton, D. E.
86-004629
Chin, H. G.
86-000531
Chingjiang, W.
86-004101
Chisholm, I. M.
86-002880
86-003226
Chlupaty, P.
86-001325
Cho, C. Y.
86-001298
86-003538
Choi, J.
86-003853
Choi, M. L.
86-001410
Chou, B. R.
86-001442
Chou, R. B.
86-000486
Choubert, G.
86-000233
86-003854
Chourrout, D.
86-001528
86-002587
86-004113
Chow-Frazer, P.
86-003651
Choy, C. Y.
86-003682
Chrisman, C. L.
86-001526
Christensen, B.
86-004210
Christensen, B. N.
86-002242
Christensen, E. A.
86-004108
Christensen, V.
86-004276
Christiansen, F.
86-001545
Christie, A. D. M.
86-001774
Christie, A. E.
86-005530
Christie, R. W.
86-001237
Christmas, J. Y. III
86-001338
Christofferson, J. P.
86-000659
Christophersen, N.
86-003637
Chubb, C. F.
86-002814
Chubb, J. C.
86-003003
Chui, J. C.
86-003094
Chui, Y. C.
86-000989
Chun, A.
86-004574
Chun, S.
86-001798
86-003422
Chun, S. K.
86-002953
86-003024
86-005329
Chung, K. S.
86-001411
Chung, S.
86-004448
Chupilko, S. V.
86-003042
Church, D.
86-000649

Chybowski, L.
86-003245
Cicerello, R. R.
86-000755
86-001722
Ciepielewski, W.
86-002710
Cipriano, R. C.
86-000866
86-000867
86-004955
86-004997
Circa, A. V.
86-003412
86-003413
86-003426
86-003427
86-003528
86-005228
Cirkovic, M.
86-005029
Claiborne, J. B.
86-002326
86-002327
86-002328
86-002533
Claridge, P. N.
86-000520
86-002845
Clark, B.
86-001412
Clark, C. R.
86-000223
Clark, E. R.
86-001285
Clark, J.
86-002329
86-003855
Clark, J. B.
86-004519
Clark, M. R.
86-000660
86-000661
Clark, R. A.
86-001179
Clark, R. D., Jr.
86-003223
86-005444
Clark, S. H.
86-005667
Clark, W. G.
86-001044
Clark, W. H., Jr.
86-000221
86-003443
Clarke, J. R.
86-002680
Clarke, M. R.
86-003266
86-005493
Clarke, W. C.
86-002456
Claussen, J. E.
86-004137
Cleland, C. E.
86-001144
Clem, L. W.
86-002169
86-002307
86-003856
Cleveland, L.
86-001884
86-003107
86-005241
Clifton-Hadley, R. S.
86-005027
Cloutman, D. G.
86-004672
86-004717
Clugston, J. P.
86-003236
Coad, B. W.
86-000155
86-002846
Coates, D.
86-001994
Coats, J. R.
86-003092
Coats, R. E., Jr.
86-003431
Cobb, E. S.
86-003207
Cobb, J. S.
86-004610
Coble, D.
86-001228
Coble, D. W.
86-001189
86-003294
Coburn, M. M.
86-001356
86-001357
86-001765
86-001766
86-002228
Coche, A. G.
86-000007
86-002022
86-002024
86-003377
Cochnauer, T. G.
86-004673
Cochran, B. C.
86-000310
Cochran, P. A.
86-001633
86-004495
86-004496
86-004497
Cochran, R. C.
86-000224
Cochrane, K. L.
86-004169
Coelho, M. M.
86-001767
Coffee, S. K.
86-004574
Cohen, A. H.
86-000263
86-002330
Cohen, D. M.
86-002909
86-004674
86-004783
86-004804
86-004805
Cohen, J. L.
86-003719
Cole, B. A.
86-002074
Cole, C. F.
86-004324
Coleman, R. M.
86-000600
Coler, R. A.
86-005215
Coles, T. F.
86-002711
Colesante, R. T.
86-002133
Coley, T. C.
86-004709

Colgan, P. W.
86-000658
86-002777
Colin, D. A.
86-001416
86-001890
Colin, J. A.
86-003008
Colin, P. L.
86-001632
86-004217
86-004377
86-004399
Collares-Pereira, M. J.
86-002588
Collette, B. B.
86-000521
86-002712
86-004806
86-004807
86-004808
Collie, N. L.
86-002331
Collier, T. K.
86-005242
Collins, H. L.
86-000662
Collins, K. D.
86-005382
Collins, M. R.
86-000522
86-000523
86-000843
Collins, R. A.
86-000768
Collins, R. O.
86-001835
Collvin, L.
86-001885
86-001886
Colorni, A.
86-001812
Colquhoun, J. R.
86-005243
Colt, J.
86-000910
Colton, J.
86-000089
86-003592
Colura, R. L.
86-002080
86-002125
Colvocoresses, J. A.
86-002847
Combs, D. L.
86-005445
Compagno, L. J. V.
86-004733
Comparini, A.
86-004100
Compean Jimenez, G.
86-004675
Condrey, R. E.
86-001607
Cone, D. K.
86-001413
86-002926
86-002984
86-003009
86-005089
Conelly, T.
86-005607
Confer, J. L.
86-001346
Congleton, J. L.
86-003267
Conlon, J. M.
86-000225
86-000226
Conneely, J. J.
86-002923
Conover, D.
86-005658
Conover, D. O.
86-000227
86-003857
Conover, R. J.
86-004464
Conquest, L. D.
86-002163
Conrad, R. H.
86-000584
Conroy, D. A.
86-000844
86-000868
86-002924
86-003858
86-004983
86-005090
86-005091
86-005150
Conroy, G.
86-000844
86-003858
86-005091
86-005092
86-005150
Constantz, G. D.
86-000601
Conte, H.
86-003495
Conte, M.
86-003496
Conti, S.
86-004440
Conway, A. F.
86-001227
Cook S. F.
86-000041
Cook, C. J.
86-000776
Cook, H.
86-003901
Cook, J. M.
86-003497
Cook, R. M.
86-004315
Cooley, D. E.
86-003182
Cooley, P.
86-002035
Coombs, C.
86-004239
Coon, J. C.
86-002047
Coon, N. C.
86-003069
Cooper, G. A.
86-004663
Cooper, J. J.
86-004242
Cooper, S. D.
86-000663
Cooper, V. A.
86-003152
Copeland, P. A.
86-002332
Copes, F.
86-001228
Copes, F. A.
86-001222

Copland, J.
86-002992
Copp, D. H.
86-002558
86-004068
Coppes, Z.
86-003859
Coppola, P.
86-002352
Corbett, B. W.
86-004393
Corbin, J. S.
86-002025
Corcobado, M. J. R.
86-004992
Corley, S. D.
86-001189
Corliss, T. L.
86-002201
Cormier, S. M.
86-005093
Corneillie, S.
86-002419
Cornelius, S. D.
86-001080
Cornell, J. H.
86-002059
86-002834
86-003218
Cornett, R. J.
86-003618
Cornish, D. A.
86-002333
Cornish, I. M. E.
86-001887
Corradini, L.
86-005100
Corrigan, A.
86-002420
Corsi, F.
86-005494
Cortesi, P.
86-003852
Corti, A.
86-003860
Cossarini-Dunier, M.
86-000845
86-002944
Cossins, A. R.
86-002457
Costa-Pierce, B. A.
86-000028
86-000029
Costantini, F.
86-003373
Cote, Y.
86-002881
Cotelli, F.
86-004170
Couch, J. A.
86-001792
86-005244
Couchman, W.
86-001396
Coughlan, D. J.
86-003095
Courtenay, S. C.
86-001634
Courtenay, W. R., Jr.
86-000792
86-003237
86-003240
86-003241
Courtney, L. A.
86-005244
Courtois, F.
86-003423
Courtois, R.
86-004498
Cousin, J. C. B.
86-002113
Coves, D.
86-003487
Covich, A. P.
86-004609
Cowan, J. H., Jr.
86-004243
Cowen, R. K.
86-004244
86-004499
Cowey, C. B.
86-000084
86-000429
86-003532
86-003539
Cowx, I. G.
86-002848
Cox, D. L.
86-002439
Cox, J. L.
86-002213
Cox, K. A.
86-002385
Cox, M.
86-002634
Coyer, J. A.
86-000673
Crabtree, R. E.
86-002842
Cragg-Hine, D.
86-005587
Craig, J.
86-002319
Craig, J. F.
86-001160
86-001164
86-004316
86-004630
86-005495
Craig, P.
86-005701
Craig, P. C.
86-000567
Craig, R. E.
86-005696
Craik, J. C. A.
86-002334
Crampton, V. O.
86-003540
Crance, J. H.
86-000524
Crane, J. S.
86-002925
Crateau, E. J.
86-000563
Cravedi, J.
86-001888
Cravedi, J. P.
86-001889
Crawford, B.
86-004668
Crawford, C. M.
86-003694
Crawford, G.
86-000968
Crawford, J. D.
86-004171
Crawford, R. J. M.
86-005357
Crawford, S. S.
86-004665

Crawshaw, L. I.
86-000308
86-001463
Crear, D.
86-002075
Crecco, V.
86-005544
Crecco, V. A.
86-000793
86-001255
86-002713
Creed, R. P., Jr.
86-001582
Crespo Leon, J.
86-005642
Crespo, S.
86-001890
86-005245
Cribb, T. H.
86-001830
Criddle, R. S.
86-003822
86-003823
Crim, L. W.
86-002562
Cripe, G. M.
86-001903
Cripps, M. C.
86-003030
Crisafi, E.
86-004965
Crisp, D. T.
86-005383
Cristiani, G.
86-003497
Crites, J. L.
86-003029
Crocker, P. A.
86-002114
Croder, L. B.
86-000800
Croft, M.
86-002332
Cronin, L. E.
86-005621
Crosa, J. H.
86-000862
86-002939
Crosby, D. G.
86-003116
Cross, B. A.
86-000584
Cross, J. N.
86-000911
Crossland, N. O.
86-000990
Crouse-Eisnor, R. A.
86-001413
Crowder, L. B.
86-001221
86-004500
86-004536
Crowe, A.
86-003183
Crowell, J. B., Jr.
86-005341
Crowley, L. E. L. M.
86-003695
86-004394
Crozier, W. W.
86-001661
86-002335
86-002589
Crumpton, J. E.
86-001159

...CONTINUED...
Crumpton, J. E.
86-001162
86-001240
Crutchfield, J. A.
86-003171
Cruz, E. M.
86-003541
86-003542
86-003543
Cruz, E. R.
86-005246
Cruz, J. M.
86-004956
Cryer, A.
86-001029
86-005159
Cryer, M.
86-002806
Csanyi, V.
86-000447
86-002606
86-002635
86-004102
Cserr, H. F.
86-002336
Cserr, R.
86-002336
Csontos, L.
86-000894
Cuadrado, M. I.
86-003696
Culley, D. D.
86-002963
Cullis, K. I.
86-002205
Cumaranatunga, P. R. T.
86-003577
Cummins, K. W.
86-005421
Cunjak, R. A.
86-003861
86-004245
Cunningham, C. R.
86-001160
Cunningham, D. E.
86-001358
Cunningham, G. L.
86-003862
Cunningham, J. E. R.
86-000131
86-001359
Currie, D. J.
86-003652
86-003653
Currier, W.
86-003213
Curtis, L. R.
86-001920
86-002337
Curtis, M. A.
86-005078
Curtis, T. A.
86-001237
Curtis, W. S.
86-002338
86-002423
Cusack, R.
86-002926
Cushman, R. M.
86-001081
Cusimano, R. F.
86-005247
Cutler, S.
86-005582
Cutter, G.
86-005205

Cyr, D. G.
86-002393
Czeczuga, B.
86-002339
D'Amelio, V.
86-001309
86-004025
D'Angelo, D. J.
86-000602
D'Auteuil, R. R.
86-000776
D'Avanzo, C.
86-004613
D'Elia, C. F.
86-003654
D'Suze, G.
86-002353
D'yakonov, Y. N.
86-002340
da Silva Nobre, M. I.
86-003464
Da Silva, J.
86-000665
Daborn, G. R.
86-005384
Dabrowska, H.
86-001891
86-005248
Dabrowski, K.
86-000664
86-001316
86-001416
86-002134
86-003555
86-003574
86-003863
86-003864
86-004154
Dabrowski, K. R.
86-000065
86-000066
86-001414
86-001415
Dadswell, M. J.
86-003020
86-004201
86-005384
Dale, G.
86-002611
86-002636
86-002660
Dale, V. H.
86-002886
Dalen, J.
86-005697
Dalessio, P. M.
86-000236
86-002494
Dalforno, S.
86-005100
Dalsgaard, I.
86-004957
Dalton, P.
86-003211
Daly, J. G.
86-000869
86-004958
Dalzell, P.
86-000603
Dalzell, P. J.
86-002704
Damaiso, L.
86-003546
Danaher, M. J.
86-003321
Dange, A. D.
86-002341
Daniels, R. A.
86-003314
Daniels, W. H.
86-002135
Danil'chenko, O. P.
86-005298
Danko, I.
86-005278
Danulat, E.
86-002342
Danzmann, R. G.
86-002590
86-002592
Daoulas, C.
86-002229
Daoust, P. Y.
86-000870
86-003064
86-005094
Dares, I.
86-002769
Dark, T. A.
86-001618
86-002001
Darnitskij, V. B.
86-000794
Das Neves Falcao, J.
86-001529
Das, K.
86-000228
Dashow, L.
86-000229
Datta Munshi, J. S.
86-003757
Datta, N. C.
86-003384
Dauble, D. D.
86-001876
86-003268
Dautrey, R.
86-004443
Davalli, P.
86-003860
Davenport, J.
86-002343
86-002344
86-002345
86-002637
86-003697
David, M. B.
86-005163
David, R. E.
86-004126
Davidson, J. R.
86-005659
Davidson, W. S.
86-001527
86-003914
86-004012
Davie, P. S.
86-001417
86-002563
86-004070
Davies, B. R.
86-005588
Davies, P. E.
86-000991
86-001892
86-001893
86-001894
Davies, P. L.
86-004146
Davies, P. R.
86-002076

...CONTINUED...

Davies, P. R.
86-002346
86-002347
Davies, R. W.
86-004472
86-004938
Davies, W. D.
86-005455
Davis, B. M.
86-004696
Davis, G. E.
86-004676
Davis, J. F.
86-002945
Davis, J. T.
86-003424
Davis, J. W.
86-005385
Davis, K. B.
86-000230
86-000231
86-002171
86-003590
Davis, M. S.
86-000232
Davis, P. E.
86-004631
Davis, R. W.
86-003038
Davison, W.
86-002563
86-002638
86-002849
Dawe, D. L.
86-002978
Dawley, R. M.
86-000449
Dawson, C. P.
86-001145
Dawson, D. C.
86-002552
86-003093
Dawson, V. K.
86-003166
86-003628
86-005332
Dawson, W. A.
86-002747
Daxboeck, C.
86-000354
86-001488
86-002349
86-004048
Day, J. R.
86-000404
De Abreu Machado, P. E.
86-004132
86-004133
De Almeida-Val, V. M. F.
86-002550
De Bernardi, R.
86-004501
De Buron, I.
86-005095
De Crosta, M. A.
86-004632
De Elquezabal, E.
86-001707
De Gonzo, G. M.
86-001705
De Haas, M. J. H.
86-000303
De la Higuera, M.
86-001286
86-001500
De La Hoz, E.
86-002230
De la Noue, J.
86-000233
De Lafontaine, Y.
86-004809
De Leeuw, R.
86-000234
86-001418
86-003865
86-003900
86-003901
De Montalembert, G.
86-003400
86-003448
De Moore, F. C.
86-004502
De Nie, H. W.
86-000679
De Oliva Teles, A.
86-000073
De Pinto, J. V.
86-003629
De Reyes, F.
86-001286
De Rosier, T.
86-000394
De Silva, C. D.
86-003866
De Silva, S. S.
86-001315
de Sostoa, A.
86-004349
De Souza, W.
86-000174
De Sylva, D. P.
86-004810
86-004811
86-004812
De Vries, U.
86-002275
86-004029
De Young, B. R.
86-001082
De Zio, V.
86-003403
De Zjaria, S. C.
86-001705
De, J. K.
86-000477
De, U. K.
86-000009
Deacon, J. E.
86-000792
86-001934
Dean, H. J.
86-005243
Dean, J. C.
86-002815
Dean, J. M.
86-000741
Deboe, S. F.
86-005536
DeBoer, J. A.
86-002114
DeBont, A. F.
86-004486
Dechtiar, A. O.
86-000920
86-005079
86-005089
Decleir, W.
86-002553
DeCrosta, M. A.
86-004574

Dederen, L. H. T.
86-002681
Deftos, L. J.
86-002385
Degani, G.
86-000132
86-000235
86-001419
86-002136
86-002137
86-002348
86-003425
86-003867
86-004981
Degnan, K. J.
86-002466
Deguchi, Y.
86-000396
Dehapiot, T.
86-002150
Dehn, P. F.
86-003868
Deinstadt, J. M.
86-002860
86-004677
86-004678
86-005468
Dekhnik, T. V.
86-002714
Del Mar Medina-Puerta, M.
86-001420
dela Cruz, C. R.
86-003426
86-003427
dela Cruz, R. C.
86-003462
86-003463
86-003573
Delamarre, P.
86-005249
Delamore, M.
86-004423
Delitala, G. M.
86-004447
Dell, M. B.
86-004392
Della Seta, G.
86-004285
Dellenbarger, L. E.
86-002077
DeLuze, A.
86-002500
Delventhal, H.
86-002987
Demars, J. J.
86-005496
DeMartini, E. E.
86-000478
86-000666
Dembinski, W.
86-003245
Demina, T. V.
86-000568
Dempson, J. B.
86-001553
86-001712
86-004729
86-005546
Demschin, N. I.
86-001831
Demshin, N. I.
86-000846
Demski, L. S.
86-000270
86-001424
Demuth, R. E.
86-000790
Dendrinos, P.
86-000237
Deniel, C.
86-004726
Denisdonini, S.
86-004170
Deniso, R.
86-005545
Denner, M. W.
86-002921
Dennis, S. D.
86-005177
Denoncourt, R. F.
86-002715
86-004679
Denuce, J. M.
86-003951
DeQuine, J. F.
86-003172
Deriso, R. B.
86-001269
86-002734
Dermott, R. M.
86-004680
Descamps, B.
86-003428
Desortova, B.
86-003674
Desportes, D.
86-003527
Desrosiers, G.
86-000746
Desser, S. S.
86-000889
86-000890
Dethlefsen, V.
86-000945
86-005152
Dettlaff, J.
86-003954
Deuter, A.
86-002989
Devadoss, P.
86-001256
Devauchelle, N.
86-003498
86-003499
DeVault, D. S.
86-003059
Devilliers, G.
86-005357
Devitsyna, G. V.
86-000222
Devlin, R. H.
86-004158
DeVries, A. L.
86-001510
Dewaele, P.
86-003391
86-005470
Dewavrin, G.
86-002138
Dewees, C. M.
86-005629
Dexter, W. D.
86-001045
Dey, R. K.
86-001804
Dgebaudze, Y. Y.
86-000127
Dhar, S. C.
86-002069
Dheer, J. M. S.
86-001421

Dheer, T. R.
86-001421
Diab, S.
86-003389
Diamant, A.
86-004317
Diamond, M.
86-004749
DiAngelo, C. R.
86-000238
Dias, R. K.
86-004174
Dibona, G. F.
86-002441
Dibtseva, A. V.
86-005157
Dick, T. A.
86-000855
86-005141
Dick, T. Q.
86-001852
Dickerson, H. W., Jr.
86-002976
Dickhoff, W. W.
86-000239
86-000397
86-000400
Dickman, M. D.
86-003010
Dickson, K. A.
86-000240
86-003869
86-004047
Dickson, R. R.
86-004309
Dickson, W.
86-001909
DiDomenico, R.
86-004176
Dierberg, F. E.
86-000965
Dierickx, P. J.
86-000241
Dietz, K. G.
86-001608
Diez, C.
86-002251
Diker, K. S.
86-001800
Dill, L. M.
86-000470
Dillaman, R. M.
86-001377
Dillard, J. G.
86-003416
86-005342
Dillon, P. J.
86-003635
DiMichele, J. A.
86-002591
86-002609
DiMichele, L.
86-000236
86-002494
86-002591
86-002682
Dimond, W. F.
86-000525
DiNapoli, A.
86-003920
Dingley, E. K.
86-002128
Dionne, M.
86-004172
DiSalvo, L. H.
86-002040
Ditton, R. B.
86-001948
86-005427
Divanach, P.
86-002138
86-002149
86-003493
86-003500
86-003501
86-003527
86-004530
Dixon, D. G.
86-000992
86-001905
86-003150
86-005271
86-005272
Dixon, G. H.
86-004103
Dixon, O. W.
86-000420
Dizon, A. E.
86-000491
Dmitriyevskaya, E.
86-000298
Doane, T. R.
86-005250
Dobayashi, H.
86-002601
Dobson, G. P.
86-000354
86-002349
Docherty, C. R.
86-000796
Docker, M. F.
86-002350
86-002351
Dodd, J. L.
86-001122
Dodd, J. M.
86-003870
86-004824
Dodd, M. H. I.
86-003870
Dodson, J. J.
86-000647
86-004498
Doering, T.
86-004035
Doerzbacher, J. F.
86-000946
Dolganov, V. N.
86-001768
86-002893
Dollerup, J.
86-001422
Domashenko, G. P.
86-004318
86-005630
Dominey, W. J.
86-004104
Don, J.
86-004105
Donald, D. B.
86-004319
86-004633
Donaldson, E. M.
86-002050
86-002528
86-003873
Donin, C. L. L.
86-004170
Donnelly, D.
86-001950
Donnelly, D. M.
86-005440

...CONTINUED...
Donnelly, D. M.
86-005441
Donnelly, R. J.
86-001865
Donoghue, S.
86-005096
Donovan, M. J.
86-001423
Doolittle, W. L.
86-004614
Dor, M.
86-004681
Dorairaj, K.
86-000030
Dore-Duffy, P.
86-002352
Dorocheva, N. G.
86-001630
Doronin, Y. K.
86-000133
Doroshov, S. I.
86-000178
86-000517
86-001408
86-002066
86-002312
86-003392
86-003561
Dorovskikh, R. S.
86-005335
Dorsett, D. R.
86-004403
Dos Santos, E. P.
86-001978
Dosdat, A.
86-003502
86-003503
Doucette, A. J., Jr.
86-000440
Douglas, M.
86-001845
Douglas, M. T.
86-005251
Douglas, R. H.
86-004173
Doumen, C.
86-002353
Dov Por, F.
86-001995
Dovel, W. L.
86-000526
Dovgopol, G. F.
86-001968
Doving, K. B.
86-000476
Dow, S.
86-003593
Dower, N.
86-001548
Dowling, T. E.
86-000441
86-001530
Downer, R. G. H.
86-001905
86-003150
Downing, J. A.
86-001345
Downing, N.
86-001083
Doyle, R. T.
86-004174
Doyle, R. W.
86-000032
86-000721
86-004106

...CONTINUED...
Doyle, R. W.
86-004368
Drade, P.
86-003482
Drapatsky, M. Y.
86-005335
Drenner, R. W.
86-002719
86-004568
Drescher, D. G.
86-002492
Drescher, M. J.
86-002492
Drewes, H. G.
86-005400
Drexel, E.
86-001518
Driedzic, W. R.
86-001452
86-004040
Driezic, W. R.
86-000242
Driscoll, C. T.
86-000119
Drost, M. R.
86-001680
86-004503
Du Preez, H. H.
86-002354
Duarte, A. C.
86-003075
Dubinsky, W. P.
86-002355
DuBose, W. P.
86-003322
DuBose, W. P. IV
86-001114
Dubsky, K.
86-002082
Duckett, L.
86-003219
Duclerc, J.
86-002014
Dudarev, V. A.
86-000591
86-000632
Dudnik, Y. I.
86-000587
Dudov, V. I.
86-005555
Duedall, I. W.
86-003202
Duff, D.
86-002868
Duffy, J. M.
86-001084
Dufour, S.
86-002748
Dugdale, R. C.
86-001349
Duggins, C.
86-002908
Duhamel, G. E.
86-005028
Duinker, J. C.
86-000986
86-005226
Dulka, J. G.
86-001424
86-002420
Dunbrack, R. L.
86-004504
Dundas, I. E. D.
86-003871
Dunel-Erb, S.
86-001350

...CONTINUED...
Dunel-Erb, S.
86-001425
Dunham, R. A.
86-000031
86-004111
86-004112
Dunlop, D.
86-003709
86-003710
Dunlop, D. E.
86-003896
Dunn-Meynell, A. A.
86-002231
Dunn, J. F.
86-002356
86-003872
Dunn, J. R.
86-003698
86-004813
Dunson, W. A.
86-001003
Dupuis, H. M. C.
86-002749
DuQuesnay, C.
86-001878
Duran, L.
86-003015
Durante, H.
86-003534
86-003537
Duremdez, R. C.
86-004959
Durie, D. J.
86-002436
Durward, E.
86-002376
Dushchenko, V. V.
86-004320
Duszynski, D. W.
86-001817
Duthie, H. C.
86-003655
Dutta, H. M.
86-000271
86-001895
86-001906
Duttweiler, M. W.
86-001046
Duval, C.
86-002014
Duve, H.
86-001355
Dvorak, M.
86-003096
Dvoryadkin, V. A.
86-000846
Dwilow, A. G.
86-002997
Dwivedi, S. N.
86-003429
Dyatlov, M. A.
86-004246
Dybdal, N. O.
86-005028
Dye, H. M.
86-002530
86-003873
86-003966
Dyer, W. G.
86-005097
Dygert, P. H.
86-004321
Dykova, I.
86-005029
Dykstra, M. J.
86-001810
Dysart, B. C. III
86-005343
Eadie, J. M.
86-001609
Eakin, R. R.
86-004814
Eales, J. G.
86-000209
86-002311
86-002393
86-003874
86-003989
86-004037
Earle, J. C.
86-003655
Eastman, J. T.
86-004175
Eaton, R. C.
86-004176
Eaton, W. D.
86-005052
Ebel, W. J.
86-005531
Ebeling, A. W.
86-002646
86-004505
Ebener, M. P.
86-001222
Ebenezer, I. P.
86-000134
Ebert, D. A.
86-001583
86-004627
Ebert, D. J.
86-001717
Ebina, H.
86-000401
Eccles, D. H.
86-000243
86-000667
86-002357
86-003699
Echelle, A. A.
86-002872
86-004107
86-004119
86-004771
86-004815
86-004816
Echelle, A. F.
86-004107
86-004815
Echeverria, T. W.
86-001360
Eckmann, R.
86-001769
86-002057
86-003544
86-004154
Economou, A. N.
86-002229
Eddy, F. B.
86-001426
86-001494
Edelhauser, H. F.
86-002287
86-002358
Edelhauser, S. M.
86-002358
Edgington, J. R.
86-005164
Edsall, C. C.
86-001753
Edwards, D.
86-002359

Edwards, L. L.
86-002035
Edwards, R.
86-001896
86-005252
Edwards, R. J.
86-002850
Edwards, R. L.
86-003359
Edwards, R. W.
86-005201
Edwards, S. J.
86-001068
Efanov, S. F.
86-005497
86-005498
Effler, S. W.
86-000119
86-002198
Efimov, Y. N.
86-005630
Egami, N.
86-000382
86-000461
Eggers, D. M.
86-001610
86-004506
Egginton, S.
86-001427
86-002360
Egglishaw, H. J.
86-002882
86-005386
Egi, M.
86-000401
86-000402
Egusa, S.
86-002969
86-005048
86-005069
86-005131
Egwui, P. C.
86-003430
Ehrenberg, J. E.
86-005698
Ehrhardt, N. M.
86-004322
Ehrlich, A. H.
86-004304
Ehrlich, P. R.
86-004304
Ehrman, L. A.
86-001968
Eichler, L. W.
86-005165
EIFAC
86-003610
86-005370
Eikenberry, E. F.
86-004035
Eiler, P. D.
86-003197
Eiras, J. C.
86-003011
86-003012
86-004956
Eisenberg, M.
86-001856
86-001857
Eisler, R.
86-000993
86-000994
86-001897
86-001898
86-003060
...CONTINUED...
Eisler, R.
86-003097
86-003098
86-005253
Ekengren, B.
86-003889
Eknath, A. E.
86-000032
86-000721
El Gharbi, S.
86-001832
El-Naffar, M. K.
86-003013
El-Sayed, N. K.
86-001386
El-Zahr, C.
86-000050
86-002103
El-Zahr, C. R.
86-001083
Elallawy, T.
86-004944
Elde, R.
86-003992
Eldridge, M. B.
86-000985
Eldridge, P.
86-005671
Elger, B.
86-002361
86-002572
Elger, E.
86-002361
86-002371
Elger, M.
86-002232
Elghozi, J.
86-000325
Elias, J.
86-001326
Eliassen, J.
86-004323
Ellenberger, S. R.
86-002939
Ellersieck, M. R.
86-005288
86-005289
Ellingham, T. J.
86-004108
Elliott, D. G.
86-004960
Elliott, J. M.
86-000569
86-002716
Elliott, M.
86-003061
Elliott, S. T.
86-005387
Elliott, W. M.
86-001428
Ellis, A. E.
86-001827
86-001879
Ellis, R. J.
86-005402
Ellonen, T.
86-000157
Ellsaesser, C. F.
86-002169
Ellsaisser, C. F.
86-003856
Elmgren, R.
86-004507
Eloranta, A.
86-004247

...CONTINUED...
Eloranta, A.
86-004449
Eloranta, P.
86-004449
Elrod, J. H.
86-005457
Elser, A. A.
86-005589
Elser, J. J.
86-000123
Elsevier, D.
86-001475
86-001476
Elston, R. A.
86-001833
86-005098
86-005101
Emdin, S. O.
86-003875
Emel'yanova, N. G.
86-001429
86-002233
Emel'yanova, O. V.
86-001532
Emery, A. R.
86-004744
Emery, L.
86-001966
Emery, S. H.
86-000135
86-003700
86-003876
Emery, W. J.
86-002211
Emmens, C. W.
86-000090
Emmett, R. L.
86-001662
86-002690
Emmons, E. E.
86-000668
86-001663
Engashev, V. G.
86-001809
Engel, S.
86-001278
Engelking, H. M.
86-005053
England, R. H.
86-003233
Englert, J.
86-003186
Engstrom-Heg, R.
86-005442
Engstrom, B.
86-002456
Enk, M. D.
86-005209
Enquist, M.
86-004177
Enzmann, P.
86-002989
Enzmann, P. J.
86-002990
Epler, P.
86-001292
86-002427
Epple, A.
86-000229
Eppler, D. T.
86-002224
Epstein, F. H.
86-001503
86-002362
86-002462

...CONTINUED...
Epstein, F. H.
86-002519
86-002523
Epstein, J. A.
86-001503
86-002519
Erbs G., V.
86-000713
Ercolini, C.
86-005057
Erdahl, A. W.
86-003611
Erdman, D. S.
86-001584
Erdmanski, J.
86-002098
Erickson, D. L.
86-000604
86-002363
Eriksen, C. H.
86-004682
Eriksson, B.
86-000389
Eriksson, L.
86-001466
86-002456
Erkinaro, E.
86-000136
Erkomaa, K.
86-005190
Erlij, D.
86-002364
Ermakova, S. V.
86-002365
Ermokhin, V. Y.
86-000127
Ermolenko, A. V.
86-000846
Erofeev, P. N.
86-000648
Erokhin, V. G.
86-001585
Eronen, T. K.
86-005590
Es-Sounni, A.
86-003701
Escaffre, A.
86-003537
Escaffre, A. M.
86-003702
Eschmeyer, W. N.
86-004907
Escoubet, P.
86-003360
Espinosa, L.
86-004634
Essig, R. J.
86-004324
Estay M., E.
86-000713
Estep, M. L. F.
86-000669
Estes, R.
86-004817
Estes, R. D.
86-002140
Etnier, D. A.
86-004818
European Aquaculture Society
86-001280
Euzet, L.
86-005095
Evans, A.
86-002578
Evans, B. A.
86-001791

Evans, B. K.
86-002402
Evans, D. H.
86-000296
86-001430
86-002326
86-002327
86-002328
86-002366
86-002367
Evans, D. R.
86-002883
Evans, G. T.
86-005546
Evans, L.
86-000193
Evans, M. S.
86-005578
Evans, R. E.
86-005238
Evans, S.
86-002804
Evans, S. A.
86-005301
Everett, J.
86-003323
Evers, H. P.
86-001490
Eversole, A. G.
86-000732
86-000770
86-002925
86-002927
86-003109
Everson, A. R.
86-004395
86-004410
Evseenko, S. A.
86-000137
86-000818
86-002854
Evtukh, P. S.
86-005458
Evtushenko, N. Y.
86-000244
Ewell, W. S.
86-005254
Ewing, M. S.
86-005030
Ewing, R. D.
86-003840
86-005032
86-005474
Ewing, S. A.
86-005030
Ezura, Y.
86-005008
86-005009
86-005010
86-005011
Ezzat, A.
86-000595
Faafeng, B.
86-004493
Faafeng, B. A.
86-003626
Faber, D. J.
86-000138
86-001361
86-001362
86-001718
86-001719
86-001720
Faber, D. S.
86-001519
Fabregas, J.
86-002139
Fabrizio, M. C.
86-004325
Facey, D. E.
86-004248
Fagerholm, H.
86-000847
Fagerlund, U. H. M.
86-003873
86-003966
Fago, D.
86-001721
Fahay, M. P.
86-003677
86-004819
Fahnenstiel, G. L.
86-003638
86-005578
Fain, A.
86-001834
86-005099
Faina, R.
86-003046
86-003125
86-005318
Fair, P.
86-004352
Fair, P. H.
86-003099
Fairweather, I.
86-005121
Fajt, J. R.
86-003017
Falk-Petersen, I.
86-002368
86-003877
Falk-Petersen, S.
86-002368
86-003877
Falkmer, S.
86-003875
86-004055
Faltas, S.
86-000595
Fange, R.
86-003878
Fanta-Feofiloff, E.
86-002369
FAO of the UN
86-000995
86-001047
86-001155
86-001204
86-001205
86-001257
86-001258
86-001259
86-001260
86-001261
86-001262
86-001263
86-001858
86-003173
86-005426
86-005499
86-005631
86-005632
86-005633
86-005634
86-005635
86-005636
86-005637
86-005638
86-005639

Farabee, G.
86-004760
Faranda, F.
86-000053
Farebrother, R. W.
86-005547
Fargher, R. C.
86-000425
Farias, J. O.
86-003464
Farina de Souza, M.
86-000174
Faris, T.
86-005412
Farkas, J.
86-001801
86-002946
Farley, T. M.
86-004046
Farmanfarmaian, A.
86-000996
Farquharson, F. L.
86-004820
Farr, J. A.
86-002750
86-004396
Farr, W. E.
86-005532
Farrell A. P.
86-002370
Farrell, A.
86-001437
Farrell, A. P.
86-000217
86-000245
86-003879
Farrell, M. P.
86-005403
Farrell, T.
86-003880
Farwell, C.
86-000091
Fashchuk, D. Y.
86-003617
86-003630
Faslul H. M.
86-002002
Fasulo, S.
86-003165
Fatima, T.
86-003822
Fauconneau, B.
86-000246
86-001316
86-003881
86-003882
Fausch, K. D.
86-004178
Fautin, D. G.
86-001554
Fava, G.
86-004100
Fava, J. A.
86-005255
Favorite, F.
86-004750
86-005559
86-005640
Favro, L. D.
86-004326
Favuzzi, J.
86-002213
Fawcett, L.
86-004703
Fay, L. A.
86-000947
Fay, R. R.
86-000479
86-002634
86-002639
86-004179
86-004207
Fayad, S.
86-003822
Fayer, E.
86-005134
86-005151
Fedler, A. J.
86-003208
Fedorov, K. E.
86-000139
Fedorov, V. V.
86-004661
86-004791
Fedoryako, B. I.
86-004512
Fee, E. J.
86-002214
Feeney, R. E.
86-002314
86-002315
86-003848
Feigenbaum, D.
86-001085
Feist, S.
86-003004
Feist, S. W.
86-000908
Feldheim, W.
86-002512
Feldkamp, S. D.
86-004574
Feldmeth, C. R.
86-001473
86-004682
Feldmeth, R.
86-004249
Feldt, W.
86-005166
Feller, G.
86-000140
Felley, J. D.
86-002216
Fels, L. M.
86-002371
Feltmate, B. W.
86-003644
Feng, J.
86-001026
Fengwang, Z.
86-001439
Fenwick, J. C.
86-001431
86-001432
Ferenbaugh, R. W.
86-000973
Ferguson, A.
86-002589
Ferguson, H. W.
86-000870
86-001835
86-002152
86-003064
86-005094
Ferguson, M. M.
86-002590
86-002592
Ferguson, S.
86-005702
Ferguson, S. C.
86-003167

Fermin, J.
86-001707
Fernald, R. D.
86-000471
Fernandes, B. M. M.
86-001795
Fernandez, J.
86-003014
86-003015
86-003907
Fernando, A. A.
86-001293
Fernando, C. H.
86-004327
Fernholm, B.
86-003703
Ferno, A.
86-004180
86-004191
86-005500
Ferreira, E. G.
86-004228
Ferri, S.
86-000141
Ferro, R. S. T.
86-001180
Fetterolf, C. M., Jr.
86-005572
Fetzer, M.
86-003704
Fevolden, S. E.
86-002597
Ffolliott, P. F.
86-001243
Fiandt, J. T.
86-005315
Fideu, M. D.
86-002372
Fiedler, P. C.
86-004751
Field, D. W.
86-002927
Field, M.
86-002467
Fievet, B.
86-001509
Filatova, N. A.
86-002851
Filosa, M. F.
86-001531
Finch
86-005641
Findlay, S.
86-002207
Findley, J. S.
86-004181
Findley, M. T.
86-004181
Fink, S. V.
86-002894
Fink, W. L.
86-000819
86-002894
86-004821
86-004822
86-004823
Finkel'shtejn, M. S.
86-003617
86-003636
Finlayson, B. J.
86-000997
Finn, J. T.
86-001178
86-001234
86-001982
Finnish Game and Fisheries Research Institute
86-005371
Fischer, B. L.
86-000422
Fischer, E. A.
86-003883
86-004428
Fischer, Z.
86-003884
86-003885
Fish, W.
86-002939
Fish, W. V.
86-001143
Fisher, J. C.
86-004679
Fisher, R. J.
86-001933
Fisher, W. L.
86-001722
Fitch, L.
86-001723
FitzGerald, G. J.
86-000510
86-002641
Fitzgerald, G. J.
86-000627
FitzGerald, G. J.
86-001555
Fitzgerald, G. J.
86-000189
FitzGerald, G. J.
86-004161
FitzGerald, W. J., Jr.
86-002078
Fitzmayer, K.
86-001294
Fitzmayer, K. M.
86-002140
Fitzpatrick, M. S.
86-002373
Fitzsimons, J. M.
86-002599
Fjellheim, A.
86-005256
Fjelsted, S.
86-005591
Flasar, I.
86-002852
Flasarova, M.
86-002852
Flegel, M.
86-003441
86-003442
Fleischer, G. W.
86-002853
Fleischer, S.
86-005154
Fleisher, M. H.
86-003857
Fletcher, G. L.
86-000451
86-001021
86-001869
86-003903
86-003921
86-003929
86-004146
Fletcher, R. C.
86-003345
Fletcher, T. C.
86-001467
86-002564
86-004072

...CONTINUED...
Fletcher, T. C.
86-005257
Flierl, G. R.
86-000756
Flik, G.
86-001431
86-001432
86-001433
86-001929
Flint, R. W.
86-003282
Flores, J. A.
86-000142
Flores, J. M.
86-002546
Flos, R.
86-001925
Fluchter, J.
86-003545
Focant, B.
86-000276
Follenius, E.
86-002374
Folz, D. J.
86-005573
Fomichev, A. V.
86-000570
Fommei, F.
86-003518
86-003519
Fontaine, Y. A.
86-002748
86-003886
Foo, J. T. W.
86-000871
Foote, K.
86-002855
Foote, K. G.
86-003361
86-005699
86-005700
Forbes, S. T.
86-005714
Ford, C. N.
86-000257
Ford, R.
86-005388
Ford, R. T.
86-005347
Foreman, R. E.
86-004824
Foresti, F.
86-004133
Forey, P. L.
86-001770
Forlin, L.
86-000186
86-003100
Formacion, M. J.
86-000442
Formicki, K.
86-003393
86-003887
Forneris, G.
86-003546
Forrest, J. N., Jr.
86-002338
86-002422
86-002423
Forster, J. R. M.
86-001285
Forster, M. E.
86-000247
86-002563
Forsyth, G. J.
86-002844
Fortier, L.
86-000571
Fortin, C.
86-005258
Foss, P.
86-002101
Fossum, P.
86-003705
86-003706
Foster, G. D.
86-002375
Foster, M. S.
86-000757
86-001076
86-001077
Foster, N. R.
86-000480
86-000605
Fostier, A.
86-002452
86-002453
86-003379
86-003888
Fouche, C. H.
86-000606
Foucher, R. P.
86-001194
Fouchereau-Peron, M.
86-001434
Fountain, R. K.
86-000666
Fournie, J. W.
86-000912
86-002977
86-003108
Fournier, D. A.
86-003896
Fox, D. P.
86-002376
Fox, H.
86-005234
Frados, A.
86-003594
Fraidenburg, M. E.
86-001048
86-002763
Fraley, J.
86-001947
Fraley, J. J.
86-003255
Franc, J.
86-003283
France
86-005496
Francescon, A.
86-005026
Francis-Flod, R.
86-005324
Francis-Floyd, R.
86-000896
Francis, R. C.
86-001602
86-002003
86-005548
Francis, R. I. C. C.
86-001275
86-002615
Francko, D. A.
86-003631
Frank, K. T.
86-000670
Frank, S.
86-000092
Frankel, J. S.
86-000443

...CONTINUED...
Frankel, J. S.
86-000444
Franki, N.
86-002396
Frankiewicz, P.
86-003252
Franzin, W. G.
86-000572
86-004683
Franzoi, P.
86-004250
Fraser, J. M.
86-001635
Fraser, T. H.
86-004825
Fredin, R. A.
86-003362
Freeman, B. O.
86-003295
Freeman, M. C.
86-001586
86-004753
Freeman, R.
86-005338
Freeman, R. L.
86-003296
French, D. P.
86-002640
Freon, P.
86-005650
Frerichs, G. N.
86-002955
86-004961
86-004962
Freshwater Biological Association
86-005372
Frey, B. J.
86-001512
Freytag, G.
86-000445
Friars, G. W.
86-002605
Fricke, H.
86-002593
Fridberg, G.
86-003889
Friddle, S. B.
86-002960
Fridirici, C. T.
86-001334
Fried, B.
86-000917
86-003021
Fried, S.
86-003324
Friedland, K. D.
86-000143
Friedman, M. A.
86-003117
Friedman, P. A.
86-002377
86-002398
Fries, C. R.
86-002378
Frimer, V. B.
86-000791
Fritz, E. S.
86-003325
Fritz, K.
86-000113
Fritzsche, R. A.
86-004826
Frizzell, R. A.
86-002396
Froehlich, O.
86-004481

...CONTINUED...
Froehlich, O.
86-005618
Froes, O. M.
86-005116
Frolov, O. N.
86-004718
Fromageot, C.
86-003949
86-003950
Frost, K. J.
86-002884
Fruge, D. W.
86-001058
Fry, F. E. J.
86-005539
Frye, C. B.
86-001248
Fryer, G.
86-001771
Fryer, J. L.
86-002957
86-004947
86-004949
86-004966
86-004990
86-005025
86-005052
86-005072
Fryer, J. N.
86-001435
Fugelli, K.
86-002379
Fuhrmann, H.
86-005004
Fuiman, L. A.
86-000144
86-000173
86-001392
86-004182
86-004827
Fujii, K.
86-000414
86-003164
86-005021
Fujikata, A.
86-000248
86-000249
86-000250
Fujimaki, Y.
86-002969
86-002981
86-005049
86-005071
Fujimoto, K.
86-003910
Fujio, Y.
86-004109
86-004128
Fujita, H.
86-002234
Fujita, M.
86-001367
Fujita, S.
86-000081
Fukai, J.
86-002617
Fukao, R.
86-001448
Fukayama, S.
86-002380
86-003890
Fukuda, H.
86-005055
86-005068
Fukuda, M.
86-003707

...CONTINUED...
Fukuda, M.
86-003891
Fukuda, Y.
86-004149
86-004963
Fukudome, M.
86-004976
Fukuhara, O.
86-002235
86-002236
Fukuoka, T.
86-002262
86-003728
Fuller, I. A. M.
86-000093
Funakoshi, S.
86-001436
Funegard, P.
86-002456
Furman, C.
86-003353
Furnell, D. J.
86-004635
Furness, R. W.
86-004508
Furst, M.
86-003244
86-005469
Furui, T.
86-002534
Furuichi, M.
86-002167
Furukawa-Tanaka, T.
86-002778
Furukawa, K.
86-002076
86-002347
86-004971
Furukawa, M.
86-005068
Furukawa, T.
86-000251
86-004509
Fushimi, T.
86-002235
Fyfe, J. L.
86-001664
G.-Toth, L.
86-001690
Gadda, J.
86-003892
Gadomski, D. M.
86-001715
Gaigher, I. G.
86-004251
Gaignon, J.
86-001593
Gajdusek, J.
86-001363
86-004442
86-005018
Gajevskaja, A. V.
86-000885
Galat, D. L.
86-001364
Galbreath, J. L.
86-004252
Galbreath, P. F.
86-001270
Gale, R. P.
86-005369
Gale, W. F.
86-004397
Galetti P. M., Jr.
86-002582
Galindo, L.
86-003062
Gall, G. A. E.
86-004091
86-004126
Gallagher, M. L.
86-002348
Gallaway, B. J.
86-005701
Gallego, L.
86-001365
Galli, L.
86-003892
86-004964
Gallo, G.
86-002455
Galloy, R. J.
86-003063
Galouet, G.
86-002113
Galtieri, A.
86-002381
Galuzo, A. G.
86-003622
86-004328
86-004329
Galvis Cortes, O. D.
86-004330
Galzin, R.
86-002014
Gambaryan, S. P.
86-002237
Gambetti, S.
86-004440
Gamble, J. C.
86-000795
Gandhi, V.
86-000030
Gandzyura, V. P.
86-003893
Gans, C.
86-004828
Garcia Del Barco, F.
86-005642
Garcia-Abad, M.dela C.
86-002742
Garcia-Arteaga, J. P.
86-002816
Garcia-Romeu, F.
86-000317
Garcia, C.
86-000633
86-001675
Garcia, J.
86-005681
Garcia, J. C.
86-001238
Garcia, J. R.
86-000913
Garcia, L. M.
86-001665
Garcia, M.
86-001286
86-001500
Garcia, M. L.
86-004711
Garcia, S
86-005643
Gardaire, E.
86-000252
Gardiner, B. G.
86-001770
Gardner, R. H.
86-001976
Gardner, S. L.
86-001817

Garetovskiy, S. V.
86-002854
Gargopa, Y. M.
86-001747
Garin, D.
86-002392
Garina, N. S.
86-000253
Garland, T. R.
86-001037
Garling, D. L.
86-003101
Garling, D. L., Jr.
86-002815
Garman, G. C.
86-001105
Garnas, E.
86-004490
Garrard, I. M.
86-003209
Garratt, P. A.
86-002382
86-002717
86-002751
Garrett, E. S.
86-000848
Garrick, J. A. F.
86-002895
Garrido-Pertierra, A.
86-001420
Garrison, N. E.
86-001866
Gartner, J. V., Jr.
86-003708
Garzon, A. I.
86-002594
Garzon, R.
86-002594
Gatesoupe, F. J.
86-003547
Gatlin, D. M. III
86-000083
86-002142
86-003548
Gatz, A. J., Jr.
86-003894
Gaub, M. A.
86-003255
Gaubadan, J.
86-002141
Gaudin, P.
86-002764
86-004183
Gaudreault, A.
86-002641
Gauldie, R. W.
86-003709
86-003710
86-003895
86-003896
Gaunt, T.
86-002559
Gauthier, L.
86-000130
86-005240
Gavioli, M. E.
86-002486
Gavrenkov, Y. I.
86-001585
Gee, A. S.
86-003270
Gee, J. H.
86-000544
86-004184
86-004474
Geen, G. H.
86-000163
86-000734
86-004646
Geffen, A. J.
86-000634
86-000645
86-002817
Geiger, J. G.
86-001294
Geiger, W.
86-005479
Geistdoerfer, P.
86-000527
Gelman, A.
86-002013
86-003137
Gengerke, T. W.
86-004684
Genovese, L.
86-004965
Geoffre, S.
86-000210
George, K. J.
86-001036
George, M. K.
86-000446
George, S. G.
86-001899
Georgopoulou, U.
86-003897
Gerasimova, O. V.
86-004480
Geraudie, J.
86-003711
Gerday, C.
86-000140
Gerdeaux, D.
86-004331
86-005470
Gerking, S. D.
86-004602
Gerlotto, F.
86-005650
German, B.
86-000292
Germann, J. F.
86-000722
86-004510
Gerrodette, T.
86-001206
Gerstmeier, R.
86-001666
Gerstung, E. R.
86-005344
Gervai, J.
86-000447
86-002606
86-004102
Gery, J.
86-003595
Gesse, J. M.
86-003907
Gessel, M. H.
86-005532
Gesser, H.
86-000242
86-003898
Gessner, M. L.
86-000947
Getchell, R. G.
86-004966
Gettleson, D. A.
86-001087
Getz, W. M.
86-005548

Gharrett, J. A.
86-004054
Ghate, H. V.
86-000145
Ghittino, C.
86-005050
Ghittino, P.
86-002932
86-005050
86-005080
86-005100
Ghosh, A.
86-000033
86-002153
Ghosh, T. K.
86-003761
Giachelli, J. W.
86-003431
Giannotta, M.
86-005433
Gibbard, G. L.
86-002115
Gibbons, D. R.
86-001239
86-005592
Gibbs, K. E.
86-000951
86-001750
86-003197
86-004524
Gibbs, R.
86-002865
Gibson, R. J.
86-002477
Gibson, R. T.
86-002025
Giesy, J. P.
86-001928
86-003101
86-005259
Giesy, J. P., Jr.
86-005296
Gilbert, C.
86-004253
Gilbert, C. R.
86-001366
Gilbertson, M.
86-000948
Gilderhaus, P. A.
86-003166
Giles, N.
86-000481
86-000482
86-001667
86-004511
Giles, V.
86-000448
Gilhen, J.
86-001724
86-004685
Gill, H. S.
86-002406
Gill, T. S.
86-001900
Gilland, E. H.
86-000146
Gillespie, D. M.
86-001236
Gillespie, R. B.
86-003102
86-003103
Gilmore, R. G., Jr.
86-000677
Gilson, C. A.
86-002383
Gingerich, W. H.
86-003104
86-003168
Gioio, A. E.
86-002598
Giovanardi, O.
86-003504
Girardin, M.
86-002818
Girijavallabhan, K. G.
86-000528
86-000758
Girin, M.
86-002116
Girsa, I. I.
86-004185
Giussani, G.
86-004501
Gjedrem, T.
86-000012
Gjerde, B.
86-000731
86-002290
86-002604
Gjessing, E.
86-005161
Gjosaeter, H.
86-003712
Gjosaeter, J.
86-000723
Gjoseater, J.
86-003712
Glass, G. E.
86-001868
Glass, M. L.
86-002384
Glauz, W. D.
86-001956
Gleason, E. V.
86-004254
86-004255
Glinz, E.
86-001388
Gloss, S. P.
86-001671
86-001860
86-003095
Glova, G. J.
86-000796
86-001556
Glover, C. J. M.
86-004686
Glowacki, J.
86-002385
Glude, J. B.
86-000008
Gluth, G.
86-005260
Gnanamuttu, J. C.
86-000528
86-000758
Gnes, A.
86-005080
Gobalet, K. W.
86-000254
Gobas, F. A. P. C.
86-000959
86-005167
Goddard, K. A.
86-000449
Godfriaux, B. L.
86-002026
86-002048
Godin, J. J.
86-000671

Godinho, A. L.
86-003432
Godinho, H. P.
86-002743
86-002752
86-003432
Goel, H. R.
86-003713
Goel, K. A.
86-000255
Goertler, C. M.
86-001248
Goessens, G.
86-000140
Goetz, F. W.
86-000199
Goetz, R. C.
86-004096
Goff, G. P.
86-001748
86-004752
Gogelein, H.
86-002388
Goh, Y.
86-000493
Gohara, A. F.
86-001877
Goilani, D.
86-004317
Golani, D.
86-000529
Gold, J. R.
86-001524
Goldberg, S. R.
86-002761
Goldes, S. A.
86-003064
Goldschmid, A.
86-003714
86-003740
86-003816
Goldspink, G.
86-001465
86-002397
Goldstein, J. M.
86-002429
Goldstein, L.
86-002429
86-002430
86-002467
86-002571
86-002572
Goldstein, S. R.
86-002429
Golovan, G. A.
86-004687
Golovanenko, L. F.
86-001290
Golovko, G. I.
86-004918
Golubev, A. V.
86-000483
Golubeva, M. G.
86-000286
Gomel'skii, B. I.
86-001532
Gomelyuk, V. E.
86-002238
Gomez Gaspar, A.
86-003505
Gomez N., D. P.
86-004741
Goncharova, I. Y.
86-002928
Gonczi, A. P.
86-000635
Gonyea, G. P.
86-000759
Gonzalez Afanador, E.
86-004688
Gonzalez M., L.
86-000625
Gonzalez-Lanza, M. C.
86-000881
86-005023
86-005024
Gonzalez-Villasenor, L. I.
86-000450
86-002609
86-003899
Gonzalez, A.
86-005650
Gonzalez, E.
86-004313
Gonzalez, M.
86-005207
Gonzalez, M. C.
86-005090
Gonzalez, M. D.
86-005090
Goodey, W.
86-004186
86-004187
Goodfellow, W. L., Jr.
86-002595
Gooding, R. M.
86-002735
Goodman, D.
86-001206
Goodman, L. R.
86-001903
Goodman, R. K.
86-002184
Goos, H. J. T.
86-000234
86-001418
86-003865
86-003900
86-003901
86-004030
Gophen, M.
86-001668
86-001688
Gopinatha Menon, N.
86-000256
86-000530
Gorbman, A.
86-000359
86-000400
86-002483
86-002547
86-003715
86-004004
86-004824
Gorbunova, N. N.
86-002854
Gordin, H.
86-000056
86-000057
Gording, H.
86-001297
Gordon, D. J.
86-004829
Gordon, J. D. M.
86-001679
Gordon, M. S.
86-000531
Gordon, W. G.
86-005389
Gordon, W. R., Jr.
86-001948

Gore, J. A.
86-003184
Gorelova, T. A.
86-001669
86-002779
86-004512
Gorham, J. C.
86-001067
Gorin, A. N.
86-003231
Gorislavskaya, M. M.
86-004087
Gorman, J. C.
86-001086
Gorrie, J. F.
86-004864
Gorshkov, S. A.
86-002596
Gorshkov, V. A.
86-000837
Gorshkova, G. V.
86-002596
Gorsuch, J. W.
86-005254
Gosline, W. A.
86-003716
Gosse, J. C.
86-002642
86-002642
Got, R.
86-003842
Goto, A.
86-004849
Gotoh, O.
86-004023
Gotshall, D. W.
86-004689
Goude, C. C.
86-001793
Goudie, C. A.
86-000230
Goudreau, C. J.
86-005598
Gould, G. A.
86-005584
Gould, J. L.
86-000597
Gould, R. W.
86-003445
Gould, S. P.
86-003820
Goulding, M.
86-000839
Gouw, L. H. C.
86-004513
Govaerts, F.
86-003944
Goven, B. A.
86-002978
Govindappa, S.
86-000200
86-000219
86-003090
Govoni, J. J.
86-001670
86-003717
86-003902
86-004690
Gowing, H.
86-005471
Grabacki, S. T.
86-000573
Grabner, M.
86-000067
86-000068
Grace, T. B.
86-000636
Grady, J. M.
86-002683
Graefe, A. R.
86-005427
Graff, D. R.
86-005345
Graham, G. A.
86-001859
Graham, J. B.
86-003869
86-004047
Graham, J. P.
86-001942
Graham, L. K.
86-003433
86-005342
86-005472
86-005736
Graham, M.
86-001437
Graham, M. S.
86-000451
86-003879
86-003903
Graham, P. J.
86-001146
Graham, R. J.
86-004639
Graham, T. E.
86-001808
Granados, A. E.
86-002093
Grande, L.
86-000820
86-001772
Grande, M.
86-005161
86-005261
Graneli, W.
86-005154
Grant, J. J.
86-003185
Grant, J. W. A.
86-003186
Grant, W. S.
86-004110
Granzier, H. L. M.
86-003680
Grasdalen, H.
86-003928
Grasso, M.
86-003851
Gratzek, J. B.
86-002978
Grau, E. G.
86-000196
86-000257
86-000344
Grau, H. J.
86-001438
86-003904
Gravem, F. R.
86-001673
Graver, C. M.
86-001422
Gray, D. L.
86-005311
Gray, K. A.
86-002386
Gray, R. H.
86-000914
86-001010
86-003268

Gray, W. N.
86-004874
Great Lakes Fishery Commission
86-001965
86-003224
Grechanov, I. G.
86-002554
Greeley, M. S., J.
86-002387
86-004398
Green, A. W.
86-001151
Green, D. A.
86-002661
Green, J. M.
86-001527
86-003326
86-003841
86-004356
Green, R. H.
86-004557
Greenbaum, I. F.
86-004121
Greene, L. W.
86-002158
Greenfield, D. W.
86-000467
Greenham, G.
86-004996
Greenley, J. C.
86-002718
86-005346
Greenwood, P. H.
86-001771
86-002896
86-003718
86-004830
86-004831
Greer, G. L.
86-002949
Greer, P.
86-004996
Greger, R.
86-002388
86-003905
Gregory, D.
86-003967
Gregory, R. S.
86-000574
Gregory, R. W.
86-001249
Grette, G. B.
86-004203
Greve, D.
86-001543
Greze, E. V.
86-002768
Grier, H. J.
86-001412
Griffin, J.
86-005733
Griffioen, P. S.
86-001031
86-001032
Griffith, J. S.
86-005606
Griffith, R. W.
86-003906
Griffiths, A. H.
86-003061
Griffiths, D. J.
86-005391
Grigor'eva, G. I.
86-002389
Grigoryan, D. A.
86-000849
Grim, J. N.
86-000886
Grimes, C. B.
86-004188
Grimm, A. S.
86-002306
Grizzle, J. M.
86-005168
Groch, L.
86-005318
Grojsman, M. Y.
86-005501
Gronell, A. M.
86-004399
Gronlund, W.
86-001917
Gronlund, W. D.
86-004928
Groot, C.
86-004189
Gross, M. R.
86-000484
86-000600
Grossman, G. D.
86-000485
86-000575
86-000604
86-001586
86-002363
86-002780
86-004332
86-004333
86-004753
Grossman, S. H.
86-002386
Grove, B. D.
86-000147
Grove, D. J.
86-001604
86-001659
86-003120
Grove, R.
86-003187
Grove, R. S.
86-001110
86-001126
86-001136
Grover, A.
86-003185
Grover, J. H.
86-002033
86-003386
Groves, D. J.
86-002390
86-002391
86-002426
Gruber, S. H.
86-000724
86-003719
Grundy, R. L.
86-005347
Grygierek, E.
86-002023
Guanghua, L.
86-001439
Guard, H. E.
86-002040
Gubanov, E. P.
86-000760
86-003720
Gubbels, R. E. M. B.
86-003951
Guderley, H.
86-000189
86-004161

Gudkov, P. K.
86-002684
Gudkovs, N.
86-001819
86-002992
Guelpen, L. V.
86-004256
Gueneau, P.
86-001161
Guerra, C. R.
86-002026
86-002048
Guerrero. L. A.
86-004922
Guerrero, L. A.
86-004920
86-004921
86-005031
Guidarini, P. L.
86-004447
Guihua, C.
86-002897
Guilland-Cumming, D. F.
86-003912
Guillaume, J.
86-002392
Guillemot, P. J.
86-000258
Guillen, G. J.
86-001901
Guillory, V.
86-002685
86-002855
Guiral, D.
86-002117
Gunawardana, J.
86-001587
Gunn, J. S.
86-005732
Gunther, D. C.
86-002183
Guoji, L.
86-005191
Gupta, K.
86-000255
Gupta, S. D.
86-000453
86-002083
Gupta, T. R. C.
86-003455
Gurov, V. P.
86-005380
Gusev, I. A.
86-004334
Gutierrez, J.
86-003907
Gutreuter, S. J.
86-003215
Guyomard, R.
86-001528
Guziur, J. F.
86-004335
Gvozdov, A. O.
86-005229
Haake, P. W.
86-000741
Haapaniemi, S.
86-000954
Haasch, M. L.
86-005333
Habiaga, R. P.
86-005644
Habib, G.
86-000853
Habibi, H. R.
86-000310

...CONTINUED...
Habibi, H. R.
86-000322
86-001464
Hackney, C. T.
86-005622
Hadderingh, R. H.
86-005533
Hadfield, J. D.
86-001725
Hadley, W. F.
86-001148
Haedrich, R. L
86-000781
86-004674
Haegele, C. W.
86-001215
Haesloop, U.
86-000949
Hafaz, R.
86-000455
Hagar, A. F.
86-000259
Hagar, J. M.
86-000672
Hagedorn, M.
86-004171
Haghighi, A. Z.
86-001895
Hagiwara, K.
86-004058
Hagwood, R. W.
86-002118
Hah, Y. C.
86-005052
Hahamu, H.
86-003867
Haibach, M.
86-003638
Haider, S.
86-003105
Haight, D. R.
86-000761
Haimovici, M.
86-005644
Haines, T. A.
86-003065
86-005169
Hair, J. D.
86-003188
Hajra, A.
86-000069
Hakkari, L.
86-001744
86-004336
Hale, M. M.
86-001162
86-001240
Hale, S. S.
86-000532
Haley, K. B.
86-005348
Haley, L. E.
86-002607
Hall, A.
86-003075
Hall, G. E.
86-001588
Hall, J. D.
86-004616
Hall, L. W., Jr.
86-000950
86-005262
Hall, T. R.
86-002359
Hall, W. S.
86-005262

Hallberg, J.
86-005593
Haller, R. D.
86-000022
Hallerman, E. M.
86-004111
86-004112
Halliday, J.
86-001872
Halliwell, N.
86-005473
Halpern-Sebold, L.
86-000373
Halpern-Sebold, L. R.
86-004030
Halver, J. E.
86-002141
86-002165
86-003549
Halvorsen, O.
86-003008
Hamackova, J.
86-003441
86-003442
Hamada, K.
86-003729
86-004849
Hambright, K. D.
86-002719
Hamby, B. A.
86-000260
Hamelink, J. L.
86-001902
Hamilton S. J.
86-003107
Hamilton, E. J.
86-003433
Hamilton, J. W.
86-004004
Hamilton, K.
86-000607
86-004754
86-005737
Hamilton, R. M.
86-003066
Hamilton, S. J.
86-003106
86-005241
86-005263
Hamman, R. L.
86-001295
86-002079
Hammar, J.
86-005469
Hammer, R. M.
86-001087
Hammer, U. T.
86-005326
Hammer, U.T.
86-003284
Hammerschmidt, P. C.
86-003238
Hampong, M.
86-002558
86-004068
Hampton, J.
86-003272
Hampton, J. A.
86-003721
86-005268
Hamre, R. H.
86-001243
86-001952
Hamrin, S. F.
86-004257

...CONTINUED...
Hamrin, S. F.
86-004450
86-004451
Hanada, H.
86-004989
Hanf, R. W.,Jr.
86-001876
Hanke, W.
86-001040
86-001443
86-005260
Hankin, D. G.
86-004337
Hanneson
86-005549
Hannesson, R.
86-005550
Hannum, J.
86-000261
Hansell, M. M.
86-000989
Hansen, D. J.
86-001903
Hansen, E. A.
86-003290
Hansen, M. J.
86-001671
Hansen, P.
86-002562
Hansen, T.
86-000013
Hanson, J. M.
86-002885
86-004514
Hanson, L. A.
86-003025
Hanson, L. H.
86-001440
Hanyu, I.
86-000188
86-000294
86-000383
86-000614
86-002076
86-002346
86-002347
86-002437
86-003461
86-003826
86-003942
Hanzelova, V.
86-001836
86-003052
86-003053
Happe, A.
86-002587
Hara, A.
86-002380
Hara, I.
86-001557
86-002720
Hara, K.
86-000262
Hara, T.
86-003000
Hara, T. J.
86-001563
86-002311
86-004189
86-004208
86-005238
Harache, Y.
86-002046
Harada, T.
86-000366

...CONTINUED...
Harada, T.
86-000367
86-003434
Harader, S.
86-005688
Harberg, M. C.
86-000001
Harbicht, S. M.
86-000572
86-004683
Hard, J. J.
86-000608
86-002049
Harder, W.
86-003722
Harders, F. R.
86-001195
Harding, E. F.
86-001611
86-001714
86-001716
Harding, G. C.
86-003656
Harding, R. D.
86-000584
Hardisson, A.
86-003062
Hardisty, M. W.
86-000520
86-002845
Hardt, T.
86-004035
Hardy, A.
86-002498
Hardy, F. J.
86-005574
Hardy, G. S.
86-000821
86-000822
86-004832
86-004833
Hardy, R.
86-002143
Hardy, R. W.
86-001313
86-002144
Harger, B. W. W.
86-001108
Hargis, W. J., Jr.
86-000850
Hargrave, B. T.
86-003656
Hargreaves, N. B.
86-004515
Harman, J. P.
86-001285
Harman, R. F.
86-001110
Harmelin-Vivien, M. L.
86-002014
Harmelin, J. G.
86-002014
Harmon, P. R.
86-000326
Harned, W. D.
86-000710
Harpster, B. V.
86-002145
Harrell, L.
86-005098
Harrell, L. W.
86-002929
86-005101
Harrell, R. M.
86-001163

...CONTINUED...
Harrell, R. M.
86-003123
Harrington, J. P.
86-000377
86-002394
Harris-Warrick, R. M.
86-000263
Harris, C. C.
86-001147
Harris, D.
86-000533
86-000534
Harris, J. E.
86-002270
86-003723
Harris, J. H.
86-004400
Harris, J. L.
86-004691
Harris, M. J.
86-000485
86-000575
86-000604
Harris, P. D.
86-000915
Harris, R. K.
86-003908
Harrison, E. J.
86-001148
Harrison, P.
86-000283
Harrison, P. J.
86-003668
Harrison, R. M.
86-003067
Harrison, S. E.
86-005310
Harrison, W.
86-002865
Hart, N. H.
86-000228
86-000371
86-000431
86-001423
Hart, P. J. B.
86-001689
Hart, R. C.
86-004755
Hart, S.
86-002270
86-003723
Hartfield, P. D.
86-001717
Hartman, G. F.
86-004776
86-005390
Hartman, M. J.
86-001137
Hartman, W. A.
86-003077
Hartman, W. L.
86-001988
Hartmann, J.
86-004516
Hartmann, R. F.
86-005365
Hartwell, S. I.
86-005170
Hartwick, R. F.
86-000640
Harvey, B.
86-000381
Harvey, H. H.
86-004692
86-005156

Harvey, J. E.
86-000917
Harville, J. P.
86-001049
86-005368
Haryu, T.
86-004425
Hasan, R. R.
86-005264
Hasegawa, E.
86-000505
86-000650
86-001558
Hasegawa, S.
86-003909
Hashem, T.
86-000595
Hashim, M. T.
86-003315
Hashimoto, K.
86-000287
86-000288
86-000366
86-000367
Hashimoto, S.
86-004517
Hashimoto, T.
86-000988
Hashimoto, W.
86-003164
Haskell, S. P.
86-001088
Hasobe, M.
86-000898
86-005051
Hassan, I. M.
86-003013
Hasselberg. R. J.
86-003059
Hassler, T. J.
86-004226
86-004268
Hastings, P. A.
86-001441
Hata, K.
86-003910
Hata, M.
86-000339
86-000339
Hatae, T.
86-001367
Hatai, K.
86-002950
86-002969
86-002981
86-005049
86-005070
86-005071
86-005102
Hatano, M.
86-001398
86-002294
86-002295
86-004051
Hatch, J. T.
86-002643
Hatch, M. D.
86-000535
Hatcher, C. O.
86-004769
Hattori, K.
86-005049
Hau, S.
86-005645
Hauck, A. K.
86-005103
Haug, T.
86-002368
86-002597
Haukebo, T.
86-003363
Hauser, F. M.
86-002939
Haux, C.
86-001904
86-003100
Havelka, M.
86-005349
Haverland, P. S.
86-000519
Havey, K. A.
86-005364
Haw, F.
86-003327
Hawkins, A. D.
86-002395
86-004258
Hawkins, C. P.
86-003643
Hawkins, P. R.
86-005391
Hawkins, W. E.
86-003108
86-005265
Hawrhshyn, C. W.
86-001442
Hawrot, E.
86-002569
Hawryshyn, C. W.
86-000486
Hay, D. E.
86-004401
Haya, K.
86-000998
Hayasaka, S. S.
86-002945
Hayashi, M.
86-004892
Hayashi, S.
86-000264
Hayashi, T.
86-000070
Hayden, B.
86-000265
Hayden, B. J.
86-003911
Haydt, P. J.
86-001055
Hayes, M. E.
86-003912
Hayes, P.
86-001218
Hayes, R. G.
86-003328
Haymes, G. T.
86-005534
Haynes, C. M.
86-004402
86-005104
86-005737
Haynes, J. M.
86-002765
Hays, R. M.
86-002396
Hazel, J. R.
86-000259
86-000266
86-000340
86-003913
Hazon, N.
86-002400

Headrick, M. R.
86-001250
Healey, M. C.
86-004337
86-004636
Heap, S. P.
86-002397
Heard, W. R.
86-000608
Hearn, M. C.
86-003435
Hearn, W. E.
86-000487
Hearne, M. E.
86-004834
Heartwell, C. M. III
86-004955
Heath, A. G.
86-000238
86-001019
Heath, M. R.
86-003675
86-004469
Heath, R. T.
86-003632
Hebert, S. C.
86-002377
86-002398
Heck, N. E.
86-002146
Heckman, R.
86-002934
Heckmann, R.
86-001837
86-003016
Hedgecock, D.
86-003227
Hedgepeth, J. B.
86-001660
Hedrick, R. P.
86-000899
86-002979
86-002991
86-005028
86-005035
86-005052
Hedtke, S. F.
86-001042
Heede, B. H.
86-005594
Heemstra, P. C.
86-004835
Hegab, S. A.
86-001443
Hegen, H. E.
86-001181
Heggberget, T. G.
86-002828
86-003363
Heidinger, R. C.
86-003436
Heifetz, J.
86-003189
86-005401
Heikinheimo-Schmid, O.
86-004518
86-005416
Heilgenberg, W.
86-004019
Heiligenberg, W.
86-003915
Heine, P. R.
86-001516
Heinonen, P.
86-001182
Heins, D. C.
86-002686
86-002753
86-004403
Heisler, N.
86-003916
Heister, N.
86-003847
Heland, M.
86-004165
Helden, L.
86-002239
Helfman, G. S.
86-000473
86-004190
86-004519
Helfrich, L. A.
86-000586
86-001241
Helgen, J. C.
86-001042
Hellou, J.
86-005266
Hellyer, S. K.
86-005065
Helms, L. M. H.
86-000257
Helps, S.
86-000059
Helton, R. F., Jr.
86-002102
Helvey, M.
86-001089
86-001197
Helzner, R. S.
86-000536
Hemdal, J.
86-000094
Hemens, J.
86-002130
86-002131
Heming, T. A.
86-000999
86-002399
86-003917
Hemmer, M. J.
86-001644
Hemmingsen, A. R.
86-004941
86-005032
86-005474
Hemsworth, R. J.
86-003299
Hendee, J. C.
86-000148
Henderson-Arzapalo, A.
86-002080
Henderson, B. A.
86-000576
Henderson, E. B.
86-000326
Henderson, I. W.
86-002400
86-003912
Henderson, M. A.
86-003918
Henderson, P. A.
86-002856
Henderson, R. J.
86-003533
86-003919
Henderson, R. P.
86-004478
Henderson, V.
86-000149

Hendrey, G. R.
86-005171
Hendrick, M.
86-003920
Hendricks, F. S.
86-004117
Hendrickson, D. A.
86-004693
86-004694
86-005600
Hendrie, M. S.
86-004961
86-004962
Henken, A. M.
86-001317
86-004643
Henningsen, A. D.
86-000724
Henry, A. E.
86-004574
Henry, M. G.
86-001037
86-005267
Henry, R. L. III
86-001236
Hensley, D. A.
86-000823
86-003679
86-004836
Henton, M. M.
86-004951
Hentschel, H.
86-002232
Hepper, P. G.
86-002644
Herbold, B.
86-003314
86-004338
Herbst, B. A.
86-000267
Herbst, H. M.
86-004502
Herche, L. R.
86-003669
Herman, R. L.
86-000851
86-000872
86-000897
86-000916
86-001287
86-002947
86-002948
Herman, S. S.
86-002899
Hermansen, H.
86-004347
86-005595
Hermanutz, R. O.
86-001042
Hernandez, F.
86-001875
Herranz, M. J.
86-002372
Herrero, C.
86-002139
Herrgesell, P. L.
86-000788
Herring, P. J.
86-000284
86-002401
Herrmann, J.
86-002772
Herrmann, S. J.
86-003017
Herron, R. C.
86-003805
Hert, E.
86-005459
Herve, S.
86-001182
Herzberg, A.
86-003137
Herzig, A.
86-002240
Hesby, J. H.
86-002100
Hessen, D. O.
86-001672
86-004452
Hestand, R. S. III
86-002548
Hetrick, F. M.
86-000879
86-000902
86-002959
86-005005
Heuer, J. H.
86-005522
Hew, C. L.
86-003921
86-003929
Hewett, S. W.
86-001223
Hewitt, R. P.
86-000797
86-001612
86-001623
86-004751
Hickey, C. R., Jr.
86-002241
Hickie, B. E.
86-003150
Hickley, P.
86-003256
Hickman, T. J.
86-004339
86-005356
Hicks, B. J.
86-000637
Hicks, C. E.
86-003433
Hickson, G. R.
86-001327
Hida, T. S.
86-005646
Hidaka, H.
86-005172
Hidaka, S.
86-002242
Hidalgo, M. C.
86-001500
Higgins, P. J.
86-004520
Higgs, D. A.
86-003036
Highstein, S. M.
86-001368
Hightower, J. E.
86-000485
Hijikata, M.
86-001540
Hilborn, R.
86-001207
86-001209
86-001961
86-001981
86-005551
Hilden, M.
86-001264
86-005552
Hilden, M. P.
86-000577

Hilker, D. R.
86-001865
Hill, C.
86-005469
Hill, C. E. A.
86-000992
Hill, J. B.
86-003058
Hill, K. T.
86-000761
Hill, L. C.
86-001670
Hilliard, R. W.
86-000150
Hilton, J. W.
86-001004
86-001005
86-002147
Hiltunen, J. K.
86-001818
Hinck, L. W.
86-004972
Hindar, K.
86-001533
Hindley, B. A.
86-001090
Hinds, K.
86-003953
Hines, A. H.
86-000609
Hinshaw, J. M.
86-004259
Hinson, W. G.
86-004096
Hinterleitner, S.
86-000428
Hinton, D. E.
86-005268
86-005331
Hinton, M. J.
86-003109
Hintze-Podufal, C.
86-001000
Hioki, M.
86-005130
Hioki, S.
86-002700
Hipkins, S. F.
86-002402
Hirai, T.
86-001454
Hiram, W. L.
86-002801
Hirano, R.
86-001640
86-004649
Hirano, Reijiro
86-000152
Hirano, S.
86-001508
Hirano, T.
86-002308
86-003909
86-003982
Hirata, H.
86-005269
Hirata, M.
86-003931
Hirata, T.
86-000405
86-002541
Hiroi, O.
86-005045
Hirono, T.
86-002463

...CONTINUED...
Hirono, T.
86-003963
Hirsch, R. W.
86-002035
Hirschberger, W.
86-005625
Hirt di Kunkel, L. M.
86-003922
Hisadome, T.
86-005269
Hisai, T.
86-003931
Hites, R. A.
86-003070
Hixon, M. A.
86-001091
Hlohowsky, I.
86-002645
Hlohowskyj, I.
86-000268
86-001444
86-001882
86-002766
Ho, B.
86-000871
Ho, L.
86-005013
Hoag, S. H.
86-002734
Hobbie, J. E.
86-002201
Hobson, E. S.
86-001749
86-004340
Hochachka, P. W.
86-001515
86-002356
86-003819
86-004048
Hocutt, C. H.
86-000151
86-000762
86-002595
Hodgins, H. O.
86-005186
Hodgkinson, P.
86-000095
Hodson, P. V.
86-000992
86-005270
Hodson, R. E.
86-004064
Hoekstra, D.
86-001445
Hoese, D. F.
86-004837
86-004838
86-004839
86-004840
Hoey, J. J.
86-001141
Hofe, E. V.
86-003110
Hofer, R.
86-000068
86-000071
86-002527
86-003550
86-003579
86-004521
Hoffman, G. L.
86-000917
86-004923
Hoffman, S. G.
86-000488

Hoffmann, R.
86-003018
86-003019
Hoffmann, R. W.
86-005105
Hogans, W. E.
86-000918
86-003020
86-005106
Hohreiter, D. W.
86-001446
Hokama, Y.
86-005275
Hokanson, K. E. F.
86-001001
86-003437
Holbrook, S. J.
86-000673
86-004522
Holcik, J.
86-004327
86-005475
Holden
86-005647
Holden, M. A.
86-002403
86-002404
Holdway, D. A.
86-001905
86-005271
86-005272
Holladay, L. A.
86-002405
Holland L. E.
86-005392
Holland, D. L.
86-003120
Holland, K.
86-005702
Holland, L.
86-000542
Holland, L. E.
86-004453
Hollander, R. R.
86-001369
Hollebecq, M. G.
86-004113
Holleboom, M. A.
86-001708
Hollerman, W. D.
86-005611
Holliday, C. W.
86-003021
Holliman, A.
86-002931
86-005107
Holloway, H. L., Jr.
86-002930
Hollowed, A. B.
86-002003
Holm, J. C.
86-003394
86-003551
Holm, K. O.
86-004967
Holm, M.
86-004180
86-004191
Holmes, R.
86-005593
Holmes, R. A.
86-001149
Holmgren, S.
86-000282
86-003955
Holopainen, I. J.
86-001447
86-001613
86-005612
Holopaines, I. J.
86-000277
Hols, H.
86-002387
Holt, G. J.
86-000610
Holt, J. D.
86-002114
Holt, R.
86-002027
Holt, R. A.
86-005025
86-005032
Holt, S. A.
86-000610
Holtby, L. B.
86-005390
Holts, D.
86-005428
Holtzman, S.
86-000269
Honda, A.
86-004968
86-004969
86-004977
Honda, H.
86-004523
Honda, K.
86-005172
Hong, S. W.
86-005052
Hongkan, G.
86-005191
Honma, M.
86-003408
Hontoria, F.
86-000080
Hood, K.
86-001403
Hooe, M.
86-002584
Hooe, M. L.
86-002813
Hop, H.
86-004441
Hopkins, C. D.
86-004171
Hopkins, D. L.
86-001009
86-003128
Hopkins, M. L.
86-000054
Hori, M.
86-004529
Horiguchi, Y.
86-004061
Horikawa, H.
86-000763
Horita, Y.
86-002950
Horn, B.
86-003190
Horn, M. H.
86-004467
86-004841
Hornbeck, J. W.
86-005160
Hornby, P. J.
86-000270
Horne, M. T.
86-001803

...CONTINUED...
Horne, M. T.
86-005016
Hornung, T.
86-000542
Horowitz, S. A.
86-003033
Horseman, L. O.
86-000950
Horseman, N. D.
86-002651
Horstgen-Schwark, G.
86-002583
86-002593
Horton, H. F.
86-001701
Horton, J. L.
86-005350
Hoshi, T.
86-003941
Hosokawa, H.
86-001321
Hossain, A.
86-000271
86-001906
Hossain, M.
86-002167
Hou, E. H.
86-001180
Houde, E. D.
86-004842
86-004843
Houdebine, L.
86-001528
Hough, D. J.
86-005734
Houghton, J. P.
86-004695
86-005535
Houghton, R. G.
86-004404
Houlihan, D. F.
86-003923
Hourigan, T. F.
86-001559
House, R. A.
86-003191
Houston, A. H.
86-000272
Hovanec, T. A.
86-001052
Hovens, J. P. C.
86-003085
Howe, K. M.
86-004907
Howell, B. R.
86-002108
Howell, W. M.
86-003743
Howes, G. J.
86-002898
Howey, R. G.
86-001307
Howick, G. L.
86-002199
Hoyle, J.
86-002406
Hrbacek, J.
86-003674
Hsiao, S.
86-000611
Hsu
86-005448
Hsu, T. C.
86-004970
86-005007

...CONTINUED...
Hsu, T. C.
86-005015
Hsu, Y.
86-005053
Huang, K. C.
86-002293
Huang, M.
86-000427
Huang, S.
86-005013
Huang, Y.
86-001860
Hubbs, C.
86-000273
86-002721
Huber, H. R.
86-004478
Hubert, W. A.
86-000536
86-001092
86-002799
86-002880
86-003226
86-004588
Hubold, G.
86-004260
Hubschman, J. H.
86-001838
Hudd, R.
86-000578
86-005679
Hudson, E. B.
86-002931
Hudson, P. L.
86-004696
Hudy, M.
86-001183
86-001249
Hueckel, G. J.
86-001074
86-003192
Huelvan, C.
86-002150
Huezo, H. E.
86-002154
Huggins, E. M., Jr.
86-000260
Hughes, A. L.
86-000612
86-001696
86-002819
Hughes, D. G.
86-002154
Hughes, G. H.
86-002243
Hughes, G. M.
86-002407
86-002733
86-003724
86-003725
86-003924
Hughes, G. W.
86-002857
86-004697
86-004721
Hughes, K.
86-002400
Hughes, M. J.
86-002820
Hughes, S. G.
86-001335
Huguenin, J. E.
86-002119
Huh, S.
86-000674

Huhmarniemi, A.
86-005575
Huiskamp, R.
86-000356
Huizinga, H. W.
86-002941
Hujikawa, Y.
86-005557
Hujita, M.
86-000434
Hulbert, P. J.
86-001963
Hull, V.
86-004285
Hulley, P. A.
86-004844
Hulsman, P. F.
86-004554
Humbert, W.
86-003925
86-003938
Hume, J. M.
86-004571
Hume, J. M. B.
86-005525
Humphrey, J. D.
86-001819
86-002992
86-005056
Humphreys, R. L., Jr.
86-005273
86-005648
Humphries, J. M.
86-004114
Hung, S. S. O.
86-002152
Hunn, J. B.
86-000274
86-002920
86-005241
Hunt, D.
86-003358
Hunt, J. J.
86-003799
Hunt, R. L.
86-001242
86-003193
Hunt, S.
86-003926
Hunt, T. C.
86-002408
Hunter, G. A.
86-002050
Hunter, J.
86-000489
Hunter, J. R.
86-000275
86-003506
86-004237
Hunter, M. A.
86-002763
Hunter, M. L., Jr.
86-000951
86-001750
86-004524
Hunter, R. J.
86-001236
Huntingford, F. A.
86-000481
Hunziker, R. E. III
86-000096
86-000097
86-000098
86-002174
86-003596
Huppop, K.
86-004156
Hureau, J.
86-004743
Huriaux, F.
86-000276
Hurlbert, S. H.
86-004525
Hurly, T. A.
86-001609
Huschenbeth, E.
86-005173
86-005174
Huse, I.
86-002101
Hussain, M. S. M. S.
86-000675
Hussain, N. A.
86-002289
Hussey, C. G.
86-001839
Huston, M.
86-000542
Hutchings, J. A.
86-000537
86-000613
86-002476
86-002477
86-004454
Hutchins, B.
86-004792
Hutchinson, N. J.
86-001915
86-005274
Hutchison, V. H.
86-000197
Hutson, D. H.
86-005252
Hutzinger, O.
86-000959
86-005167
Huxley, R.
86-003120
Huybrechts, L.
86-003944
Huysseune, A.
86-003726
86-003727
Hvidsten, N. A.
86-001949
Hwang, H.
86-004064
Hwang, P. P.
86-000152
Hyam, D.
86-002562
Hyatt, A. D.
86-005056
Hyatt, W. H.
86-000974
Hyde, L. L.
86-000404
Hynynen, J.
86-000954
Hyslop, E. J.
86-002781
Hyvarinen, H.
86-000277
86-001447
86-005612
Ibara, R. M.
86-002646
Ichikawa, T.
86-004077
Ichioka, K.
86-004051

Idler, D. R.
86-000391
86-002545
86-002566
86-005306
Ievleva, M. Y.
86-002409
Iga, T.
86-002410
Igarashi, M.
86-001454
Igumnova, L. V.
86-002244
Ihssen, P. E.
86-002605
Ihssen, R. E.
86-004138
Iida, H.
86-001370
Iida, M.
86-004987
Iida, T.
86-004971
Iijima, N.
86-003932
Iizawa, M.
86-004526
Ijima, N.
86-001454
Ijiri, K.
86-000461
Ikeda, M.
86-001448
Ikeda, S.
86-000411
86-000434
86-001483
86-001484
86-004027
Ikeda, Y.
86-000248
86-000249
86-000250
86-001002
86-002264
86-003162
86-003163
86-003164
Ikenaga, Y.
86-002618
Ikeya, F.
86-005064
Ikonen, E.
86-005484
86-005677
86-005678
86-005679
Ikuno, Y.
86-001449
86-002256
86-002460
86-003963
Ikuta, K.
86-005175
Il'in, B. V.
86-005703
86-005704
Illing
86-005446
Illinois Natural History Survey
86-001957
Inada, Y.
86-002617
Inamura, H.
86-001802
Inbaraj, R. M.
86-003105
Incze, L.
86-004756
Infante, O.
86-004527
Ingebrigsten, K.
86-001907
Ingham, M. C.
86-003317
Ingraham, W. J., Jr.
86-004757
Innes, A. J.
86-000278
Inoue, K.
86-005054
86-005064
86-005070
Inoue, M.
86-001038
86-001039
86-003257
Inoue, S.
86-002411
86-002431
Inoue, Y.
86-001654
86-002411
86-002431
86-002647
Inskip, P. D.
86-000538
Internation Council for the Exploration of the Sea
86-001969
International Council for the Exploration of the Sea
86-001265
86-001614
86-001861
86-002005
86-003068
86-005176
86-005649
International Pacific Halibut Commission
86-001066
Inui, Y.
86-000279
86-002471
Ionas, V. A.
86-005501
Ippolito, D. F.
86-000976
86-004192
Iriarte, L. M.
86-005650
Irie, T.
86-000638
Irion, W.
86-000750
86-001628
Irvine, J. R.
86-001655
Irwin, J.
86-004249
Isaia, J.
86-000252
Isakson, J. S.
86-004695
Isani, G.
86-003852
Isbrucker, I. J. H.
86-001777
Isensee, A. R.
86-003111

Ishak, M. M.
86-002081
86-003285
Ishida, K.
86-005557
Ishida, T.
86-004517
Ishida, Y.
86-000494
86-001511
86-002722
Ishihara, T.
86-000262
Ishii, T.
86-005001
Ishimatsu, A.
86-002384
86-002412
Isoda, M.
86-002950
86-005071
Isom, B. G.
86-005177
Israel, G.
86-003738
Istvanovics, V.
86-003641
Itazawa, Y.
86-000168
Ito, B. M.
86-005275
Ito, H.
86-001700
86-002262
86-002829
86-002830
86-003728
Itoh, A.
86-000081
Itoh, S.
86-005132
Itoh, Y.
86-000434
Itzkowitz, M.
86-004405
Iuchi, I.
86-002255
Ivanstoff, W.
86-004846
Ivantsoff, W.
86-003695
86-004394
86-004724
86-004845
86-004882
86-004883
Iwado, T.
86-005014
Iwai, T.
86-000290
Iwama, G. K.
86-002310
86-002949
Iwamatsu, T.
86-003991
Iwamori, M.
86-002255
Iwamoto, M.
86-002413
Iwamoto, R. N.
86-000078
Iwamoto, T.
86-004847
86-004848
Iwaoka, W. T.
86-002144
Iwasa, Y.
86-004341
Iwata, A.
86-001371
86-003729
86-004849
Iwata, M.
86-000280
86-001371
Izawa, H.
86-004929
86-004968
86-004969
86-004977
86-004978
Izumi, T.
86-002438
Jackling, S. J.
86-005187
Jacknow, J.
86-000993
86-003069
Jackson, A. J.
86-003582
Jackson, D. C.
86-001093
Jackson, P. D.
86-004667
Jackson, R. V.
86-003210
Jackson, S. D.
86-004760
Jacobs, D.
86-003329
Jacobson, L. D.
86-001534
Jacobson, M. E.
86-001134
Jacobson, P. C.
86-001224
Jacobson, R.
86-000542
Jacobson, R. A.
86-001516
Jacobsson, A.
86-005178
Jaeger, C. B.
86-002414
Jaeger, J.
86-001751
Jaffe, R.
86-003070
Jager, T.
86-003395
Jagoe, C. H.
86-003065
Jaime Garzon, F.
86-004160
Jakobsson, S.
86-004177
Jakupsstovu, H.
86-005705
Jalabert, B.
86-003888
Jam, P. T.
86-003597
James, M. O.
86-005276
James, P. S. B. R.
86-000055
86-000639
James, P. W.
86-002687
James, V. A.
86-005277

Jameson, R.
86-005429
Jana, B. B.
86-000009
86-003378
Janecek, J.
86-004760
Janecek, V.
86-003447
Jankowski, J. M.
86-004103
Jankowsky, H. D.
86-001513
Janska, H.
86-000281
Janssen, J.
86-000676
86-001445
Janzow, F. T.
86-000267
Jarboe, H. H.
86-000896
Jarvik, A.
86-005651
Jarvinen, O.
86-000952
86-005190
Jastrzebski, Z. T.
86-005706
86-005707
86-005708
Jauncey, K.
86-000072
86-002160
Jeet, S.
86-004938
Jeffrey, J. E.
86-004639
Jeffrey, K. A.
86-003167
86-005281
Jeffries, H. P.
86-000764
Jelonek, M.
86-002821
Jeney, G.
86-005278
Jeney, Z.
86-005278
Jenkins, G. P.
86-000640
Jenkins, R. L.
86-000099
Jenkins, R. M.
86-005422
86-005613
86-005619
Jenkins, W. E.
86-002099
Jennings, M. R.
86-004193
Jennings, T. R.
86-000014
Jensen, A.
86-002209
Jensen, A. J.
86-004637
86-005110
Jensen, A. L.
86-004535
86-005553
Jensen, F. B.
86-002415
86-002416
86-002481
Jensen, J.
86-000282
Jensen, J. N.
86-004129
Jensen, J. O. T.
86-000184
86-005108
86-005108
86-005312
Jensen, J. W.
86-000725
86-003258
86-004342
Jessee, W. N.
86-001076
86-001077
86-001094
Jessop, B. M.
86-001971
Jessop, E. F.
86-000631
Jesswein, W.
86-003211
Jestin, J. M.
86-004638
Jezierska, B.
86-000496
86-003396
Jiang Jianqiao
86-004123
Jiang, L. F.
86-003112
Jianying, Z.
86-003022
Jinhui, Q.
86-001846
Jionghua, P.
86-001651
Jiping, Y.
86-004875
Jiwei, S
86-005109
Jo, Y.
86-001805
86-001806
86-004985
86-005020
Jobling, M.
86-002148
86-002822
86-003927
Joel, J. J.
86-000134
Joensen, J. E.
86-001908
Johal, M. S.
86-000779
Johansen, K.
86-002384
86-002412
86-003658
86-003844
Johansen, P. H.
86-000490
86-000956
86-001560
86-002656
Johansson
86-005652
John, H. C.
86-003730
Johns, D. M.
86-002187
Johnsen, B. O.
86-004637

...CONTINUED...
Johnsen, B. O.
86-005110
Johnsen, P. B.
86-000476
86-001296
86-003524
Johnson, A. H.
86-005179
Johnson, B. A.
86-005351
Johnson, B. L.
86-001208
Johnson, C. M.
86-001803
Johnson, D. A.
86-005332
Johnson, D. L.
86-001336
86-003259
Johnson, D. W.
86-002120
Johnson, E. Z.
86-003731
Johnson, G. D.
86-004850
Johnson, H. E.
86-000919
Johnson, H. T.
86-004528
Johnson, J. E.
86-005476
Johnson, J. H.
86-001561
Johnson, K.
86-001050
Johnson, K. A.
86-002940
Johnson, M. C.
86-001808
Johnson, M. G.
86-005192
Johnson, O.
86-004138
Johnson, R. B.
86-003212
Johnson, R. K.
86-004851
86-004852
86-004853
Johnson, R. L.
86-003180
86-005694
Johnson, R. R.
86-001243
86-004204
Johnson, S.
86-005688
Johnson, S. L.
86-004972
Johnson, S. W.
86-005401
Johnson, W. E.
86-002685
Johnsrude, C. L.
86-001562
Johnston, C.
86-005582
Johnston, C. E.
86-001450
86-003732
Johnston, I. A.
86-000185
86-000283
86-000284
86-001397
...CONTINUED...
Johnston, I. A.
86-001451
86-001452
86-002417
Johnston, J. D.
86-002292
Johnston, J. M.
86-000439
Johnstone, R.
86-000452
86-002376
86-004115
Joki-Heiskala, P.
86-000954
Jollie, M.
86-003733
Jones, A.
86-001840
Jones, B.
86-000034
Jones, B. E.
86-003299
Jones, C.
86-000727
86-002823
Jones, C. M.
86-000726
Jones, D. H.
86-004261
Jones, D. R.
86-000331
Jones, F. V.
86-002121
Jones, G.
86-000824
Jones, G. P.
86-002782
Jones, J.
86-001473
86-004249
Jones, J. B.
86-001725
86-001841
Jones, J. J.
86-000951
86-001750
86-004524
Jones, K. A.
86-001563
Jones, L. D.
86-003312
Jones, P.
86-004925
Jones, R. D.
86-005447
Jones, R. S.
86-004188
Jongeneel, R. P.
86-005197
Jonsson, B.
86-001673
86-004277
86-004462
Jordan, C. M.
86-005653
Jordan, D. R.
86-002723
Jorgen Pihl, N.
86-002129
Jorgensen, L.
86-003928
Jorgensen, P. E. V.
86-005060
Jorgensen, T.
86-004967

Jory, D. E.
86-002783
Joshi, H. C.
86-005279
Joss, J. M. P.
86-000285
Jothy, A. A.
86-004297
Jowett, I. G.
86-001244
Jowko, G.
86-003396
Joy, J. E.
86-001842
Juario, J. V.
86-003576
Jubb, R. A.
86-004698
86-004699
86-004854
Jubenville, A.
86-005430
Juch, J. W.
86-003830
Jude, D. J.
86-000641
86-004353
86-005536
86-005538
86-005578
Judy, R. D., Jr.
86-001958
Juedes, M. J.
86-003113
Julien, M.
86-005683
Jurss, K.
86-002418
Jutila, E.
86-005393
Jyoti Dhar, N.
86-000220
Kaatra, K.
86-005576
Kabata, Z.
86-001794
86-005033
Kadlec, J.
86-001328
86-002175
86-003598
Kaeriyama, M.
86-003397
86-003398
86-004262
Kagan, E. D.
86-001932
Kagan, J.
86-001932
Kagawa, H.
86-000338
Kah, O.
86-000210
86-002420
Kai, N.
86-003071
86-005180
Kaige, N.
86-001813
86-004973
86-004986
86-005034
Kaiser, K. L. E.
86-000992
Kaisho, T.
86-001321
Kaitala, V.
86-005554
Kaitaranta, J. K.
86-000315
Kajishima, T.
86-001540
Kajiyama, H.
86-001321
Kalat, M.
86-002603
Kaleis, M.
86-004767
Kalff, J.
86-003653
Kalikhman, I. L.
86-005709
Kalishevskaya, T. M.
86-000286
Kallman, K. D.
86-000142
Kallqvist, T.
86-005161
Kalnim, V. V.
86-004343
Kalnin, V. V.
86-001535
Kalnina, O. V.
86-001535
86-004343
Kamal, M. Y.
86-003035
Kamari, J.
86-000952
86-000953
86-000954
Kamilov, B. G.
86-000728
Kaminski, C.
86-001384
Kamiso, H. N.
86-003023
Kamler, E.
86-003552
86-003734
Kamlet, K. S.
86-003072
Kamysheva, T. P.
86-002245
86-004455
Kanai, Y.
86-005055
86-005063
Kanazawa, A.
86-002164
86-003553
86-003554
Kanazawa, T.
86-004946
Kane, A. S.
86-001336
Kane, D. A.
86-000943
Kaneda, T.
86-003910
Kanehiro, H.
86-001564
86-001972
86-005508
Kaneko, T.
86-000614
Kanenaka, B.
86-005662
Kangur, M.
86-004406
Kanisch, G.
86-005166

Kanisch, M.
86-005166
Kankova, J.
86-002619
86-002620
86-002621
Kanoh, S.
86-000287
86-000288
Kao, M. H.
86-003929
Kaplan, A. Y.
86-000289
Kaplan, B. B.
86-002598
Kaplan, E. D.
86-003043
Kapuscinski, A. R. D.
86-004116
Kariya, H.
86-002618
Karlin, A. A.
86-002908
Karlsson-Norrgren, L.
86-001453
86-001909
86-001910
86-003100
Karmoskaya, E. S.
86-002246
Karnaky, K. J., Jr.
86-002247
Karpenko, E. A.
86-005555
Karpenko, V. I.
86-002688
Karpevich, A. F.
86-000579
Karr, J. R.
86-004383
Karrer, C.
86-003730
86-003735
Karttunen, P.
86-002421
Kashimura, A.
86-005654
Kashino, R. K.
86-004697
Kashiwagi, M.
86-000290
Kashkin, N. I.
86-005556
Kashking, K. A.
86-001585
Kasumyan, A. O.
86-002648
Katano, Y.
86-002540
86-002541
Kataoka, A.
86-003071
Katavic, I.
86-002120
Kato, F.
86-002167
Kato, K.
86-001636
86-004948
Kato, T.
86-003734
Kato, W.
86-005654
Katsuyama, M.
86-002463

...CONTINUED...
Katsuyama, M.
86-003963
Katz, A. H.
86-003174
Katz, H. M.
86-003174
Kauffman, J.
86-001156
Kaufman, L. S.
86-004124
Kaul, M.
86-003438
Kaushik, S. J.
86-000065
86-000073
86-001316
86-003538
86-003555
86-003864
Kavumpurath, S.
86-001464
Kawaguchi, K.
86-003736
Kawaguchi, S.
86-003364
Kawahara, E.
86-004974
Kawai, K.
86-004975
Kawamoto, P.
86-005655
Kawanabe, H.
86-004529
Kawasaki, T.
86-001637
Kawatsu, H.
86-003930
86-004023
Kawauchi, H.
86-002308
86-003909
Kay, J.
86-001029
86-005159
Kayama, M.
86-001454
86-003931
86-003932
Kayes, T. B.
86-000318
86-001337
86-002754
86-003436
Kayton, R. J.
86-001843
Kazakov, R.
86-004344
Kazanskiy, A. B.
86-003273
Kearn, G. C.
86-003050
86-005111
Keast, A.
86-000729
86-001697
Keast, J. A.
86-001694
Keats, D. W.
86-000615
Keefe, T. J.
86-001364
Keegan-Rogers, V.
86-001536
86-001638
Keembiyahetty, C. N.
86-003866

Keene, M. J.
86-004855
Keenleyside, M. H. A.
86-000616
86-000617
86-000618
86-000671
86-004426
Keir, M. J.
86-000974
Keirans, W. J.
86-002899
Kelch, D. O.
86-001115
Keleher, C. J.
86-002765
Kelepouris, E.
86-002579
Kelle, W.
86-005112
Keller, E. C., Jr.
86-004073
Kellerman, K.
86-002939
Kelley, C. D.
86-002084
Kelley, G. G.
86-002422
86-002423
Kelly, G. G.
86-002338
Kelly, J.
86-004035
Kelly, K. H.
86-004263
Kelly, M. G.
86-001085
Kelly, P. E.
86-001942
Kelly, R. K.
86-000905
86-005073
Kelsch, S. W.
86-000472
86-004117
Kelso, J. R. M.
86-000580
86-005192
Kemp, C. J.
86-002337
Kempe, E. J.
86-000992
Kemrova, J.
86-003125
Kenchington, T. J.
86-004856
Kendall, A. W., Jr.
86-004264
86-004857
86-004858
Kendall, R. L.
86-001010
86-001281
Keniry, M. J.
86-000730
Kennedy-Stoskope, S.
86-004939
Kennedy, C. R.
86-003019
86-004924
86-004925
Kennedy, G. J. A.
86-002824
86-004194
Kennedy, J. J.
86-001051

...CONTINUED...
Kennedy, J. J.
86-005352
Kent, J. D.
86-000291
86-003933
Kent, M. L.
86-000899
86-002979
86-005028
86-005035
86-005036
86-005113
Kentouri, M.
86-002138
86-002149
86-003500
86-003501
86-003527
86-004530
Kenttamies, K.
86-000954
Kenya, V. S.
86-000591
86-000642
Kepner, W. G.
86-004407
86-005477
Keranen, M.
86-000157
Kerby, J. H.
86-003439
Kerr, S. J.
86-003246
Kerr, W. L.
86-003848
Kerschner, B. A.
86-000677
Ketola, H. G.
86-003556
Kettunen, J.
86-005552
Kevern, N.
86-001080
Khadka, R. B.
86-004531
Khakimullin, A. A.
86-003934
Khalaf, G.
86-004532
Khan, A.
86-005081
86-005114
Khan, I. A.
86-002424
86-004408
Khan, M. A.
86-000937
Khan, R. A.
86-000887
86-001814
86-001822
Khan, S. M.
86-003778
Khanin, J.
86-002013
Khatri, T. C.
86-000118
Khimitsa, V. A.
86-003636
Khyazev, I. V.
86-003440
Kidder, E. L.
86-002425
Kidder, G. W. III
86-002425

Kiefling, J. W.
86-005596
Kieser, M. S.
86-003648
Kieser, R.
86-005720
Kijima, A.
86-002617
Kikkawa, B. S.
86-004409
86-004410
Kikuchi, M.
86-003135
Kikuchi, T.
86-000988
Kikuchi, Y.
86-003924
Kilambi, R. V.
86-003737
86-004265
Kilham, S. S.
86-003657
Kim, I.
86-000467
86-004118
Kim, J. Y.
86-003024
Kim, K. K.
86-003557
Kim, Y. G.
86-003024
Kimball, A. S.
86-004603
Kime, D. E.
86-002426
86-002427
86-003838
86-003935
Kimmel, B. L.
86-000123
Kimmel, J. R.
86-000359
86-004004
Kimura, D. K.
86-001979
Kimura, L. H.
86-005275
Kimura, S.
86-003936
Kimura, T.
86-004942
86-004999
86-005008
86-005009
86-005010
86-005011
86-005017
86-005074
Kindle, K. R.
86-002428
86-003937
King, D.
86-002724
King, D. S.
86-000393
King, J. A.
86-002493
King, K.
86-005625
King, M. A.
86-004639
King, P. A.
86-002429
King, W.
86-003213
Kingsford, M. J.
86-001372
Kinkelin, P.
86-002932
Kinne-Saffran, E.
86-002430
Kinne, R.
86-002430
86-002572
Kinnunen, R. E.
86-000919
Kinoshita, Y.
86-004948
Kinsella, J. E.
86-000292
Kiorboe, T.
86-003658
86-004533
Kirby, R. P.
86-001435
Kircheis, F. W.
86-001225
Kirchgessner, M.
86-000077
86-003558
Kirchhofer, A.
86-004345
Kirchhofer, D. A.
86-003645
86-004541
Kirk, J. P.
86-005455
Kirkegaard, E.
86-002129
Kirn, R. A.
86-004534
86-004535
Kirsch, R.
86-003925
86-003938
Kirschvink, J. L.
86-000491
Kirsipuu, A. Y.
86-002600
Kirstukae, I. P.
86-000437
Kirtley, P. T.
86-003599
Kishi, H.
86-002540
Kishida, R.
86-003728
Kishimoto, H.
86-004892
Kishimura, H.
86-003939
Kiskaroly, M.
86-000888
Kitada, T.
86-000082
Kitagawa, D.
86-000153
86-000712
Kitahara, T.
86-003940
86-005557
Kitajima, C.
86-000081
Kitajima, K.
86-002431
Kitao, T.
86-002957
86-004945
86-004946
86-004976

...CONTINUED...
Kitao, T.
86-005012
Kitazawa, H.
86-004302
Kitazawa, T.
86-000405
86-002432
86-002540
86-002541
86-003941
Kitchell, J. F.
86-000672
86-001208
86-001223
86-004495
86-004536
86-004542
Kitting, C. L.
86-000674
Kittler, M. C.
86-002433
Kittrell, W. B.
86-003212
Kiziewicz, B.
86-002339
Kizner, Z. I.
86-005542
Kjorsvik, E.
86-002637
86-003697
86-005280
Klaoudatos, S.
86-002434
Klar, G. T.
86-003025
Klassen, G. J.
86-000920
Klassen, H. D.
86-005394
Kleckner, R. C.
86-001726
86-001727
86-001743
Kleeman, J. M.
86-003114
86-003115
Kleftis, K.
86-005066
Kleifeld, G.
86-003544
Klein, M.
86-005105
Kleingeld, D. W.
86-001317
Kleinholz, C. W.
86-003239
Kleinow, K. M.
86-001455
86-001456
86-005333
Kleinseller, A.
86-002259
Kleinzeller, A.
86-002435
86-002436
Klekot-Tourron, L.
86-003073
Kleppel, G. S.
86-001653
Kleve, M. G.
86-004096
Kleynhans, C. J.
86-000765
Klimley, A. P.
86-000492

...CONTINUED...
Klimley, A. P.
86-004700
Kline, C. R.
86-004195
Kline, M. L.
86-002725
Kling, H. J.
86-002214
Klingbeil, R. A.
86-001616
Klocek, R.
86-000100
Klochkova, E. A.
86-003042
Knak, R. B.
86-005181
Knarr, J. D.
86-004678
Knauber, D.
86-001548
Kneib, R. T.
86-002755
86-002784
Knezovich, J. P.
86-003116
Knight, K.
86-002997
Knight, L. A., Jr.
86-003232
Knight, N. J.
86-004196
Knight, S. S.
86-005403
Knights, B.
86-003559
Knisley, C. B.
86-001227
Knoll, A.
86-001911
Knowles
86-005448
Knudsen, H. P.
86-003365
Knudsen, K. L.
86-004122
Knuth, M. L.
86-005303
Knutsen, H.
86-001276
Knyazeva, N. S.
86-003440
Ko, K. S.
86-003260
Ko, R. C.
86-000921
Koban, M.
86-000293
Kobayashi, A.
86-003397
Kobayashi, D. R.
86-001565
Kobayashi, H.
86-000348
86-000493
86-000494
86-002547
86-004077
Kobayashi, K.
86-004057
86-004058
86-004892
Kobayashi, M.
86-000294
86-002437
86-002726

...CONTINUED...
Kobayashi, M.
86-003942
86-005001
Kobayashi, T
86-004266
Kobayashi, T.
86-000547
Kobylyanskiy, S. G.
86-000825
86-001669
Koch, F.
86-001518
Kochkin, P. N.
86-002825
Kock, H.
86-004537
Kock, K.
86-004814
Kock, K. H.
86-005115
Kodama, H.
86-004929
86-004968
86-004969
86-004977
86-004978
Kodric-Brown, A.
86-000619
Koenings, J. P.
86-005460
Koenst, W. M.
86-003437
Kogan, A. V.
86-001693
Kogelschatz, J. E.
86-001348
Kohara, M.
86-005064
Kohler, A. C.
86-004464
Kohler, C. C.
86-003240
86-003241
86-003242
Kohlmeyer, G.
86-002987
Kohn, A.
86-001795
86-005116
Kohno, S.
86-002601
Koike, A.
86-001184
86-001185
Koike, T.
86-000495
Koivusaari, U.
86-000186
86-005227
Koizumi, T.
86-000082
Kojima, H.
86-002438
86-002448
86-002535
86-003135
Kojima, K.
86-001540
Kojima, M. K.
86-003131
Kolar, Z.
86-001431
86-001432
Koldenkova, L.
86-003738
Koli, L.
86-000581
Kolmakov, I. B.
86-005353
86-005710
Kolman, R.
86-000015
86-003243
Kolok, A. S.
86-002785
Kolton, R. J.
86-003167
86-005281
Kolupayev, B. I.
86-005282
Komori, T.
86-002463
86-003963
Komov, V. T.
86-001033
Konagai, M.
86-000154
Konagaya, T.
86-002200
Konchina, Y. V.
86-004538
86-004539
Kondal, J. K.
86-005309
Kondo, H.
86-000405
86-002432
86-002540
86-002541
86-003941
Kondo, T.
86-005654
Kondrashov, A. S.
86-002580
Konkle, B. R.
86-004540
Konno, S.
86-002155
Konosu, S.
86-000070
Konovalenko, I. I.
86-002858
Konrad, M.
86-002990
Konstantinov, A. S.
86-001698
Konstantinov, V. V.
86-000782
Koob, T. J.
86-002248
86-002439
86-002440
Kopp, U. C.
86-002441
Kori-Siakpere, O.
86-000295
Korkuc, M.
86-002901
Kormanik, G.
86-002442
86-002443
Kormanik, G. A.
86-000296
86-001430
Korn, S.
86-004054
Korneev, A. A.
86-001752
Kornfield, E.
86-004816

Kornfield, I.
86-004119
86-004859
Kornienko, G. G.
86-001630
Kornman, L. E.
86-000582
Korotkov, V. K.
86-005502
Korsgaard, B.
86-000297
86-001908
86-002444
86-003739
Kortschal, R.
86-003740
Korwin-Kossakowski, M.
86-000496
86-003396
Koschier, F. J.
86-003117
Koshino, Y.
86-001449
Koski, K.
86-005412
Koski, K. V.
86-003189
86-004203
86-004376
86-004541
86-005401
86-005597
Koss, G.
86-003074
Kotchian-Prentiss, N. M.
86-000621
Kothary, R.
86-002445
Kotis, R. J.
86-003330
Kotlyar, A. N.
86-000766
86-002864
86-002900
86-004267
86-004860
Kotov, E. I.
86-005503
Kotova, N. P.
86-001809
Kotrschal, K.
86-003714
86-003741
86-003816
Kouril, J.
86-002082
86-003096
86-003441
86-003442
Kovacs-Gayer, E.
86-005039
Koval'chuk, L. A.
86-003622
Kovaljova, A. A.
86-000885
Kovtsova, M. V.
86-002826
Kovtun, V. V.
86-004411
Kowalewski, M.
86-002840
86-004617
Kowtal, B. V.
86-002083
Kowtal, G. V.
86-000453

...CONTINUED...
Kowtal, G. V.
86-003443
Koyama, J.
86-001002
86-003163
86-003164
Koyama, M.
86-002673
Koyanagi, T.
86-001508
Kozaki, S.
86-004948
Kozhara, A. V.
86-002249
86-002250
Kozlitina, S. V.
86-001747
86-005568
Kozubkaya, G. I.
86-003623
Kraai, J. E.
86-001170
Kraft, C. E.
86-000120
86-004542
Kraft, M. E.
86-001989
Krahn, M. M.
86-000955
86-005186
Kraiem, M. M.
86-004346
Kral, K.
86-000854
Kramer, B.
86-001457
86-001458
Kramer, D. L.
86-000212
Kramer, S. H.
86-004543
86-005273
Krasil'shchikov, M. S.
86-004926
Krasin, V. K.
86-000885
Krasnoper, E. V.
86-002446
Kratt, L. F.
86-003228
Kratz, T. K.
86-003646
Kraul, S. A., Jr.
86-002837
Kraus, K. A.
86-003445
Krautgartner, W. D.
86-003741
Krautter, G. R.
86-003117
Kremer, W.
86-002442
86-002443
Kremers, W. K.
86-002786
Kriksunov, E. A.
86-000539
Kringle, R. O.
86-005254
Kringstad, A.
86-005161
86-005232
Krise, W. F.
86-002060
86-003444

...CONTINUED...
Krise, W. F.
86-003445
Krishna Bhat, C. H.
86-000745
Krishna Pillai, S.
86-001150
Krishnamoorthi, K. P.
86-003118
Krog, C.
86-004347
86-005595
Krom, M. D.
86-000056
86-000057
86-001297
86-002028
Krommiller, T. G.
86-003331
Krotzer, R. S.
86-001732
Krout, R. T.
86-001003
Kruchinin, O. N.
86-005504
Krueger, C. C.
86-004137
Kruetzmann, H.
86-000298
Krupka, I.
86-003446
86-004120
86-004640
Krupp, F.
86-000155
86-000454
86-000767
86-000826
86-000827
Kruse, K. C.
86-000525
Krutovskiy, S. V.
86-003943
Krygier, E. E.
86-002727
Kryzhanovskiy, I. V.
86-004641
Kuba, S. H.
86-004657
Kubicz, A.
86-000281
Kublik, E. A.
86-003795
Kubo, Y.
86-003253
Kubota, J.
86-002308
86-003095
Kubota, S. S.
86-002950
86-004973
86-005049
86-005070
86-005071
86-005102
Kubota, T.
86-004544
Kubu, F.
86-003447
Kucas, S. T.
86-004268
Kucas, S. T., Jr.
86-004269
Kucera, P. A.
86-001561
Kudrin, B. D.
86-000564
Kuga, T. I.
86-000539
Kuhajda, B. R.
86-001728
Kuhn, E. R.
86-002225
86-002419
86-003944
Kuhn, P. C.
86-005193
Kuiper, T.
86-005688
Kukko, O.
86-000157
Kukuev, E. I.
86-000780
Kulamowicz, A.
86-002901
Kulikova, N. I.
86-000035
86-003845
86-003945
Kullenberg, G.
86-003056
Kullman, D.
86-001485
Kulzer, K. E.
86-004121
Kumai, H.
86-003253
86-003434
Kumamoto, H.
86-002950
Kumar, D.
86-001804
Kumar, K.
86-000700
Kumar, N. J.
86-003118
Kundiger, R.
86-004011
Kundiyev, V. A.
86-004641
Kungvankij, P.
86-003001
Kunisaki, N.
86-002447
Kunnamo-Ojala, T.
86-002469
Kunzel, T.
86-004704
Kuo, C.
86-000426
86-000427
86-002561
Kuo, P. K.
86-004326
Kupchinskaya, E. S.
86-000540
Kupelian, R. H.
86-002933
Kuperman, B. I.
86-001373
Kuppers, B. U.
86-000616
Kurawaka, K.
86-001448
Kurita, M.
86-002700
Kuroda, K.
86-000153
Kurokawa, T.
86-002448
Kuroki, H. B.
86-001847

...CONTINUED...
Kuroki, H. B.
86-003037
Kuroyanagi, A.
86-005654
Kurtenbach, J.
86-000678
Kurz, J. M.
86-004574
Kushlan, J. A.
86-004701
Kushnarenko, A. I.
86-004348
Kushnarenko, A. L.
86-005656
Kusuda, R.
86-000323
86-000324
86-000877
86-004963
86-004974
86-004975
86-004979
86-005002
Kutergina, I. G.
86-002608
Kuthan, T.
86-003125
Kutkuhn, J. H.
86-003332
Kuwahara, A.
86-000685
86-004461
Kuz'mina, V. V.
86-000299
86-001373
86-002449
Kuzik, V. V.
86-000198
86-000300
Kuznetsov, J. A.
86-005504
86-005505
Kvasnicka, P.
86-002082
86-002619
86-004125
Kwain, W.
86-004412
Kychanov, V. M.
86-003399
Kykharev, N. N.
86-000549
Kynard, B.
86-000629
86-002808
86-004390
86-004465
86-005529
L'Insalata, A.
86-003403
La Ferla, R.
86-004965
Laale, H. W.
86-001374
LaBar, G. W.
86-000736
Labat, R.
86-000455
86-004443
Lablaika, I.
86-004767
Labon-Cervia, J.
86-004349
LaBounty, J. F.
86-002215
Labuda, H.
86-000181
Lacanilao, F.
86-002086
Lacerda-Krambeck, M.
86-002369
Lachner, E. A.
86-001781
86-002907
Lacroix, G. L.
86-001459
Ladanov, Y. V.
86-005558
Laevastu, T.
86-005559
86-005640
Laffoley, D. A.
86-004925
Lahti, E.
86-003742
Lai, H.
86-002827
Lake, P. S.
86-000533
86-000534
Lakshmi, I. R.
86-005117
86-005118
Lakshmi, K.
86-005145
Lal Mohan, R. S.
86-000828
Lal, B.
86-003119
Lalier, F.
86-003772
Lall, S. P.
86-004996
Lam, T. J.
86-000301
86-000302
86-000871
Lamadrid-Rose, Y.
86-001644
LaMarca, M. J.
86-000311
Lamare, J. P.
86-003497
Lamarra, V. A.
86-004549
Lambert, J. G. D.
86-000234
86-000372
86-002511
Lambertsen, G.
86-003952
Lambrechts, L.
86-001834
86-005099
Lamers, C. H. J.
86-000303
86-000304
86-002951
86-004980
Lamilla G., J.
86-001731
Laming, P. R.
86-000305
86-002666
Lammens, E. H. R. R.
86-000679
86-004545
Lancaster, C.
86-002992
Landau, M.
86-000965

Landry, A. M., Jr.
86-001078
86-001118
86-001135
Landsberg, A.
86-002362
Landyshevskaya, A. E.
86-001970
Lang, B.
86-004546
Lang, C.
86-004546
Langdon, J. S.
86-001819
86-002992
86-003026
86-005056
Lange, C. L.
86-000852
Lange, R.
86-002602
Langeland, A.
86-002209
86-004547
Langford, T. E.
86-001600
Langholz, H.
86-002583
86-002593
Langhorne, P.
86-000306
86-001460
Langi, A.
86-005198
Lania, A.
86-002381
Lanka, R. P.
86-001092
Lankinen, P.
86-004153
Lannan, C. N.
86-005072
Lannan, J. E.
86-004116
Lanno, R. P.
86-001004
86-001005
Lanoiselee, B.
86-003448
Lantz, R. C.
86-005331
Lanusse, A.
86-003948
Lanzing, W. J. R.
86-000656
Laperriere, A.
86-001820
Lapointe, D.
86-005258
Lara, J.
86-002251
86-003696
Lara, W.
86-005207
Large, H. L.
86-002522
Larkin, M. J.
86-003743
Larkin, P. A.
86-003175
86-003333
86-004220
Laroche, J. L.
86-003804
Laroche, W. A.
86-003744

...CONTINUED...
Laroche, W. A.
86-003808
86-005730
Larosa, M. L.
86-004170
Larrick, S. R.
86-001461
Larson, B. J.
86-004548
Larson, D.
86-001233
Larson, E. W.
86-003259
Larson, M.
86-003211
Larson, R. J.
86-000258
Larsson, A.
86-001904
86-003100
Larsson, P.
86-001862
86-005182
Lartigue, J. P.
86-004443
Lasenby, D. C.
86-000121
86-003244
86-003642
Lasker, R.
86-004350
Lasserre, G.
86-002014
Last, J. M.
86-004404
Last, P. R.
86-004667
Lasta, C.
86-004613
Latey, A. N.
86-003946
Latse, Z. M.
86-000437
86-001400
Latvaitis, P. B.
86-003128
Latz, M.
86-002501
Lau, C. J.
86-004574
Laude, D.
86-000325
Lauder, G. V.
86-001352
Laufle, J. C.
86-001095
86-004270
Laur, D. R.
86-004505
Lauren, D. J.
86-001006
86-005283
Laurent, P.
86-001497
86-003745
86-003923
Laurs, R. M.
86-002616
Lautenberger, J. A.
86-002622
Lautenslager, G. T.
86-002993
Laux, D. C.
86-003911
Lauzanne, L.
86-003283

Lavenberg, R. J.
86-004576
86-004910
86-005711
Lavigne, D. M.
86-002877
Lavin, P. A.
86-000156
Lavorva, Y. A.
86-004034
Lavrova, Y. A.
86-001462
Law, A. T.
86-001318
Law, F. C. P.
86-000989
86-003094
Laws, E. A.
86-000028
86-000029
Lawson, C. S.
86-001158
86-005480
Lawson, T. A.
86-001209
Lawson, T. B.
86-002188
86-002196
Layher, W. G.
86-000798
86-003297
Lazarus, S.
86-001186
Le Bec, C.
86-004305
Le Gac, F.
86-002562
Le Mao, P.
86-002787
Le Milinaire, C.
86-003547
Le Quan-Sang, K.
86-000325
Le Roux, P.
86-004854
Lea, R. N.
86-001781
86-004197
86-004384
Leak, J. C.
86-002252
Lear, S.
86-002462
Leary, R. F.
86-004122
Leary, T. R.
86-005657
Leathe, S. A.
86-005209
Leatherland, J. F.
86-000307
86-000801
86-001298
86-001755
Leavesley, K.
86-001738
Lebail, P. Y.
86-003379
LeBec, C.
86-001639
Lebedeva, A. N.
86-000506
Lebegue, E.
86-003547
Lebo, J. A.
86-003107
LeBrasseur, R. J.
86-004515
Lech, J.J.
86-005333
Lecomte-Finiger, R.
86-004351
86-004642
Ledgerwood, R. D.
86-004534
86-004535
Lee-Gallagher, M.
86-001419
Lee, C.
86-001640
86-003507
Lee, C. O.
86-003194
Lee, C. S.
86-002084
Lee, C. W.
86-003260
Lee, D. P.
86-005350
Lee, E.
86-002494
Lee, J.
86-004118
Lee, K.
86-003634
Lee, K. M.
86-000497
Lee, L. A.
86-000536
Lee, R. F.
86-000328
86-003969
Lee, Y. H.
86-002479
Leek, S. L.
86-002943
Leering, G.
86-003246
Lefrancois, O.
86-004638
Legault, J. A.
86-002204
Legendre, M.
86-003449
Leger, C.
86-003947
Leger, C. E.
86-002708
Leger, P.
86-000080
Leggett, W. C.
86-000571
86-000670
86-004514
LeGrow, S. M.
86-001319
Lehman, J. T.
86-005578
Lehtonen, H.
86-000628
86-001264
86-001266
86-004758
Leiby, M. M.
86-004861
Leider, S. A.
86-000620
86-004271
86-004668
Leis, J. M.
86-003678

...CONTINUED...
Leis, J. M.
86-003746
86-004862
86-004863
86-004887
Leitch, J. A.
86-005423
Lejeune, P.
86-002014
Leknes, I. L.
86-001375
Lelana, I. Y.
86-003450
Lelek, A.
86-004665
Leloup-Hatey, J.
86-002424
86-002498
86-002500
Leloup, J.
86-002500
Leme Dos Santos, H. S.
86-003998
Lemly, A. D.
86-001573
Lemm, C. A.
86-003560
Lemons, D. E.
86-000308
86-001463
Lenarz, W. H.
86-000258
Lentz, D. C.
86-004549
Lentz, T. L.
86-002569
Lenzi, M.
86-003518
86-003519
Leon, K. A.
86-002051
Leonard, P. M.
86-005183
86-005598
Leonardson, L.
86-005395
Leong, J. C.
86-005053
Leong, T. S.
86-001796
Leopold, M.
86-005184
Leray, C.
86-000309
86-001379
86-001416
86-001890
Lesack, L. F. W.
86-005431
Lesel, M.
86-003948
86-003949
86-003950
Lesel, R.
86-003948
86-003949
86-003950
Leslie, A. J., Jr.
86-001773
Leslie, J. K.
86-004864
86-005712
Lessman, C. A.
86-000310
86-000322

...CONTINUED...
Lessman, C. A.
86-001464
Lestelle, L. C.
86-005396
Lester, R. J. G.
86-000541
86-000853
86-005075
Letichevskij, M. A.
86-000006
Leuven, R. S. E. W.
86-002681
Levanon, D.
86-002136
86-002137
86-003425
86-003867
86-004981
Levanon, N.
86-004981
Levavi-Zermonsky, B.
86-002450
Levels, P. J.
86-003951
Levin, A. V.
86-002867
Levine, N. D.
86-002980
Levine, S. N.
86-003633
Levings, C. D.
86-004272
Levy, E. M.
86-005185
Lewis, D. H.
86-000873
86-000900
86-000922
86-002161
Lewis, D. J.
86-003120
Lewis, G. W.
86-003306
Lewis, R. E.
86-000643
Lewis, R. J.
86-001108
86-004702
Lewis, S. M.
86-004550
86-004551
Lewis, W. M., Jr.
86-003121
Lewkowicz, M.
86-003552
Lewkowicz, S.
86-003552
Li Kang
86-004123
Li Yucheng
86-004123
Li, H. W.
86-005327
Li, L.
86-000889
86-000890
Li, M. F.
86-002451
Li, Y.
86-002029
Liao, I.
86-002029
86-002085
Liao, P. B.
86-002189

Libby, D. A.
86-001699
Libey, G. S.
86-001526
Libosvarsky, J.
86-001863
86-004413
Librero, A. R.
86-003386
Licata, A.
86-003165
86-003815
86-004083
Lichorat, R. M.
86-004438
Lichtenfels, J. R.
86-001844
Lichtkoppler, F. L.
86-002033
Lichtkoppler, F. R.
86-001115
Lidgerding, B. C.
86-002959
86-005005
Lie, O.
86-003952
Lieberman, J. T.
86-005537
Lied, E.
86-003952
Liem, D. A. K.
86-000959
Liem, K. F.
86-001376
86-002253
86-004124
Lien, G. J.
86-001001
Lien, J.
86-004703
Light, R. W.
86-000939
Lightfoot, E. N.
86-001390
Lihlou, A.
86-002030
Liley, N. R.
86-001641
86-002452
86-002453
86-004186
86-004187
Lim, L. H. S.
86-005119
Lim, P.
86-004443
Lima, A. R.
86-005303
Lima, C.
86-003075
Liming, S.
86-001544
Limnology
Zooplankton
86-003662
Lin, R.
86-005240
Lin, S. S.
86-002189
Lin, T. M.
86-002577
Lin, Y. P.
86-000311
Lincoln, R. F.
86-004115
Lincoln, R. H.
86-001048
Lind, E. A.
86-000157
86-001226
Lindahl, K.
86-003889
Lindberg, J. C.
86-003561
Linder, G.
86-001864
Lindquist, D. G.
86-001096
86-001377
Lindqvist, O. V.
86-003742
Lindsay, G. J. H.
86-000312
86-002454
Lindsay, J. A.
86-005506
Lindsey, C. C.
86-004225
Lindstrom, R.
86-003147
Lindvik, B.
86-004958
Linfield, R. S. J.
86-002649
86-005397
Ling, N.
86-000313
86-000314
Ling, P.
86-004406
Linhart, O.
86-002082
86-004125
Linko, R. R.
86-000315
86-005204
Linkowski, T. B.
86-001615
Linoiselee, B.
86-003400
Linsey, G. A.
86-000121
Linskey, C. S.
86-002850
Lio-Po, G.
86-004982
Lio-Po, G. D.
86-004959
Lippson, R. L.
86-001251
Lipskaya, N. Y.
86-004552
86-004553
Lipton, D. W.
86-000858
Lipton, J.
86-005460
Lisovenko, L. A.
86-004414
Lisowski, J. J.
86-002650
Liston, J.
86-004061
Lithner, G.
86-001904
Litman, G. W.
86-003953
Litman, R.
86-003953
Little, E. E.
86-005241

Little, K. F.
86-000158
Littlejohn, S.
86-000542
Litwa, M.
86-003051
Liu, B.
86-000414
Liu, H.
86-003747
Liu, K.
86-005019
Liu, W. K.
86-003122
Livingston, P. A.
86-001210
86-001674
Lizzio, E. F.
86-000420
Ljungberg, O.
86-001909
86-001910
Llewellyn, L. C.
86-003748
Lo Paro, G.
86-000053
Lo, C.
86-005120
Lo, N. C. H.
86-000583
86-000797
Loadman, N. L.
86-004198
Loar, J. M.
86-003894
Loayza, W.
86-004525
Lobel, P. S.
86-002767
Lobuntsov, K. A.
86-001809
Loch, J. J.
86-004271
Lockwood, R. N.
86-001191
Lodge, D. M.
86-003646
Lodi, E.
86-001468
Loffler, H.
86-000456
Loftus, D. H.
86-004554
Logan, D. T.
86-005284
Logan, S. H.
86-002068
Loiselle, P. V.
86-004145
86-004415
Lokshina, I. E.
86-005713
Lom, J.
86-002974
86-002983
86-005029
Lomakin, P. D.
86-000791
Lomax, K. M.
86-002196
Lommel, R.
86-003018
Lone, K. P.
86-002151
86-003965
Long, C. W.
86-005532
Long, D.
86-001865
Long, J. J.
86-004949
Long, L. V.
86-001277
Longhurst, A. R.
86-003659
Longmore, L. A.
86-001990
Lonning, S.
86-001922
86-003697
Loomis, J.
86-001950
Loomis, J. B.
86-005440
86-005441
Lopes, R. A.
86-003998
Lopez, A.
86-003027
Lopez, E.
86-002424
Lopez, F. J.
86-001875
Lorenz, W. R.
86-001187
Lotrich, V. A.
86-002839
Loucks, G. A.
86-003229
Loudenslager, E. J.
86-004126
86-004129
Loudermilk, W. E.
86-004759
Loughna, P. T.
86-001465
Lourencin, F. B.
86-005302
Love, M. S.
86-000768
Lovejoy, W. S.
86-001980
Lovell, R. T.
86-003414
86-003450
86-003831
Lovtrup, S.
86-004865
Low, G.
86-002736
Low, R. A., Jr.
86-001267
86-003334
Lowe-Jinde, L.
86-005285
Lowenberg, U.
86-004704
Lowenstein, J.
86-002455
Lowry, L. F.
86-002884
Loy, G. L.
86-000301
Loyacano, H. A., Jr.
86-003123
Lozano-Morales, J. F.
86-005217
Lubbock, R.
86-004838
86-004839

Lubinski, K. S.
86-004760
Lucas, M. F.
86-003075
Lucena, J.
86-003749
Lucet, G.
86-003508
Lucet, P.
86-003509
Luchini, L.
86-001299
Lucky, Z.
86-000854
Luczynski, M.
86-000015
86-003243
86-003245
86-003954
86-004555
86-005478
Ludke, J. L.
86-003069
Ludwig, G. M.
86-002735
Luecke, C. M.
86-004556
Luer, C.
86-001353
Lugarev, E. S.
86-004334
86-004348
Luijken, M. W.
86-001031
Luk'yanov, A. S.
86-000253
Luk'yantseva, E. N.
86-004927
Lukens, J. R.
86-004673
Lukens, R. R.
86-001338
Lukmanov, E. C.
86-001589
Luna, M.
86-004440
Lund, R. A.
86-002828
Lundin, K.
86-003955
Lundqvist, H.
86-001466
86-002456
Lunin, V. I.
86-005523
Lutes, P. B.
86-000316
Lutz, A.
86-005200
Luyten, P. H.
86-001641
Lyall, K.
86-000973
Lyle, W. G.
86-004574
Lyman, H.
86-003335
Lynam, S.
86-004021
Lynch, W. E., Jr.
86-003259
Lynn, M. E.
86-005030
Lyons, B.
86-000101
Lyons, J.
86-001633
86-005507
Lysack, W.
86-003286
Lyubin, V. P.
86-003750
Lyubina, T. V.
86-004926
Ma, H.
86-004127
Maas-Diepeveen, J. L.
86-001031
86-001032
Mac, M. J.
86-000498
86-001753
Macaluso, M.
86-002585
86-004151
Macaranas, J. M.
86-000465
86-004128
MacArthur, J. I.
86-001467
MaCauley, S. F.
86-001903
MacCall, A. D.
86-001616
Maccallum, W.
86-001168
MacConnell, E.
86-003401
MacCrimmon, H. R.
86-003087
Macdonald, A. G.
86-002457
Macdonald, J. A.
86-000500
86-003956
Macdonald, J. M.
86-002358
Macdonald, J. S.
86-004557
Macdonald, N. L.
86-003855
Macedo, B.
86-001795
Maceina, M. J.
86-001686
Macewicz, B. J.
86-000275
Macey, D. J.
86-000150
86-001504
86-002458
86-002459
MacFarland, W. N.
86-000621
MacFarlane, R. D.
86-002952
MacGregor, L. C.
86-002435
MacGregor, R. III
86-004398
Machado-Allison, A.
86-001675
Machado, R. D.
86-000174
Machena, D.
86-004352
Machida, M.
86-000921
Machiels, M. A. M.
86-004643

Machon, A.
86-003124
Machova, J.
86-003046
86-003125
86-005318
Macintosh, D. J.
86-000036
86-003591
86-005264
Maciorowski, A. F.
86-002124
Mack, A.
86-003400
MacKay, R. J.
86-001825
Mackay, W. C.
86-000375
86-000376
86-000593
86-001160
86-001164
86-001200
86-001501
MacKenzie, C.
86-000543
MacKenzie, K.
86-005461
Mackie, A. M.
86-003539
86-003562
Mackie, G. L.
86-005214
MacKinnon, M. R.
86-000037
Mackler, S. A.
86-002330
MacLachlan, P.
86-000795
MacLennan, D. N.
86-005714
MacLeod, W. D., Jr.
86-000955
MacMahon, P. D.
86-003167
86-005281
MacMillan, J. R.
86-000907
Macpherson, E.
86-001676
Madamba, J. C.
86-002031
Maddock, B. G.
86-001028
Maddock, L.
86-003266
86-005493
Maddock, M. B.
86-001539
86-004108
Madenjian, C. P.
86-005538
Madhavi, R.
86-000923
Maeda, Y.
86-002673
Maekawa, K.
86-001642
MAFF Directorate of Fisheries Research
86-003178
Magarifuji, E. J.
86-004574
Maggio, R. C.
86-003372
Magisa, R. C.
86-003541

...CONTINUED...
Magisa, R. C.
86-003542
Magnhagen, C.
86-000680
86-001677
Magnuson, J. J.
86-000645
86-000800
86-001754
Magrath, P. A. G.
86-005414
Magtoon, W.
86-000457
86-002914
Maguire, G. B.
86-004705
Magurran, A. E.
86-002661
Mahajan, C. L.
86-001421
Mahdi, A. A.
86-002190
Mahe, Y.
86-000317
Mahmoud, Z. N.
86-002859
Mahmoudi, B.
86-004761
Mahnert, V.
86-003595
Mahnken, C. V. W.
86-002052
Mai, L.
86-005019
Maier, M.
86-000433
Maillard, C.
86-003039
Main, K. L.
86-002788
Maina, J. N.
86-003751
Mais, K. F.
86-001703
Maisey, J. G.
86-002902
Maisse, G.
86-003957
Maita, M.
86-001002
Majeed, S. K.
86-001845
Majkowski, J.
86-003272
Majnarich, J. J.
86-004991
Majumdar, K. C.
86-001537
Makaran, R.
86-004052
Makeeva, A. P.
86-000159
86-002233
Makhotin, V. V.
86-002041
86-003752
Makie, D.
86-004405
Makihara, M.
86-002691
Makinodan, Y.
86-000411
86-001483
86-001484
Makita, T.
86-005269

Makowecki, R.
86-001996
Maksimenko, V. V.
86-000681
Maksimov, V. A.
86-000837
86-002701
Makwinja, R. D.
86-001171
Malacarne, G.
86-001468
Malczewski, B.
86-003418
Malecha, S. R.
86-000029
Malik, E.
86-002983
Malik, S. E.
86-001801
Malinin, L. N.
86-004206
Malins, D. C.
86-000955
86-005186
Malison, J. A.
86-000318
86-001337
86-001469
Mallatt, J.
86-004273
86-005286
Mallefet, J.
86-001470
Mallet, M. D.
86-004048
Mallett, M. J.
86-003152
Malley, D. F.
86-003076
Mallicoate, D. L.
86-001703
Malloy, L.
86-001650
Malmqvist, B.
86-002772
Maloiy, G. M. O.
86-003751
Malsberger, R. G.
86-002899
Malte, H.
86-005287
Malvin, R. L.
86-002302
Maly, E. J.
86-004494
86-005202
Malyrevskaya, A. Y.
86-003958
Malyukina, G. A.
86-000222
Malyzheva, T. D.
86-004018
Mambretti, J. M.
86-003214
Mamcarz, A.
86-000016
86-000019
86-003126
86-003274
86-003402
Man Wai, R.
86-004366
Manabe, H.
86-004892
Mance, G.
86-001028
Mangalik, A.
86-003563
Manganaro, A.
86-000053
Mangano, C.
86-000135
Mangel, M.
86-005560
Mangold-Wernado, U.
86-001491
Mani, K.
86-005309
Manier, I. F.
86-003027
Mankin, P. C.
86-003306
Mann, K. H.
86-004464
Mann, R. H. K.
86-002887
86-003127
Manning, C. S.
86-005265
Manning, J. E.
86-004086
Manning, M. J.
86-003959
86-003960
86-003976
Manning, N. J.
86-003935
Manooch, C. S. III
86-000682
86-004644
Mansfield, P. J.
86-004353
86-005536
Manthey, K.
86-001650
Manzer, D.
86-002979
Manzer, J. I.
86-004416
Maoka, T.
86-000319
86-001449
86-002256
86-002460
86-002463
86-003963
Marais, J. F. K.
86-002354
Marangos, C.
86-003510
Marano, G.
86-003403
Marcel, J.
86-003417
Marchal, E.
86-005715
Marchant, R.
86-003567
Marchant, T. A.
86-001471
Marchiafava, P. L.
86-000320
86-001378
Marconato, A.
86-001643
Marcotte, B. M.
86-004558
Maren, T. H.
86-002461
86-002532
Margaritov, N.
86-003028

Margolis-Nunno, H.
86-000373
86-004030
Margolis, L.
86-000921
86-001825
Margraf, F. J.
86-002797
86-004371
Mariani, A.
86-004285
Marin-Sorensen, M.
86-000361
Marin, C.
86-004983
Marion, K. R.
86-004398
Marivoet, D.
86-005224
Markarova, G. D.
86-001747
Markert, M.
86-005237
Markevich, A. I.
86-002238
Markey, J. R.
86-001227
Markiewicz, F.
86-003451
Markina, N. P.
86-004455
Marking, L. L.
86-001007
86-001043
Markiw, M. E.
86-000893
86-001818
86-005037
Markle, D. F.
86-003677
86-004819
86-004829
86-005724
Marks, J.
86-002161
Marks, J. E.
86-000900
86-000922
Marliave, J. B.
86-003753
86-004456
Marlow, C. B.
86-001097
Marrayatt, V.
86-002451
Marryatt, V.
86-001815
Marsh, A. C.
86-001678
86-004417
Marsh, B. A.
86-004417
Marsh, E.
86-001472
Marshall, B. E.
86-005614
Marshall, J. A.
86-004073
Marshall, N. B.
86-004795
Marshall, N. J.
86-002254
Marshall, W. S.
86-000321
86-000322
Marte, C.
86-004982
Marte, C. L.
86-002086
Martem'yanov, V. I.
86-003961
Martin R. J.
86-003150
Martin-Bergmann, K. A.
86-000544
Martin-Robichaud, D. J.
86-003139
86-004001
Martin, C. W.
86-005160
Martin, D. B.
86-003077
Martin, D. J.
86-002886
Martin, D. K.
86-001090
Martin, F. D.
86-001520
86-004866
Martin, J. D.
86-004201
Martin, J. R.
86-001085
Martin, K. L.
86-000531
Martin, M. A.
86-004129
Martin, R. M.
86-000608
86-002967
Martinez, A. P.
86-001647
86-004559
Martinez, I.
86-002407
Martinsen, K.
86-005161
Marty, G. D.
86-005462
Martyn, R. D.
86-003372
Marver, D.
86-002462
Marver, L. T.
86-002462
Masaki, Y.
86-001700
86-002829
86-002830
Mashtakova, G. P.
86-003660
Masoero, L.
86-005057
Mason, D. L.
86-000682
86-004644
Mason, J. C.
86-000622
86-002756
Mason, J. W.
86-003195
Mason, P. L.
86-005219
Mason, T. R.
86-001774
Masser, M. P.
86-003564
86-003962
Massingill, M. J.
86-001052

Mast, R. W.
86-003117
Masuda, K.
86-002255
Masuda, N.
86-002460
Masumoto, H.
86-001656
Matallanas, J.
86-004706
Matarese, A. C.
86-000160
86-004813
86-004867
86-004868
86-004900
86-004901
86-004908
86-004909
86-005716
Mathers, R. A.
86-000956
Matheson, R. E., Jr.
86-000829
Mathews, C. P.
86-000054
86-002689
86-002728
86-002835
Mathews, H. H.
86-001120
Mathias, J. A.
86-001617
86-004198
Matlock, G. C.
86-003212
86-005432
Matsubara, A.
86-000323
86-000324
Matsubara, T.
86-002380
Matsumiya, M.
86-001499
Matsumiya, Y.
86-001656
Matsumoto, H.
86-004987
Matsumoto, K.
86-000401
Matsumoto, N.
86-005102
Matsuno, T.
86-000319
86-001449
86-002256
86-002460
86-002463
86-003963
Matsuo, M.
86-002647
Matsuura, H.
86-002447
Matsuura, M.
86-003964
Matsuyama, H.
86-002575
Matter, W. J.
86-000678
86-002675
Matthews, G. M.
86-002464
Matthews, J.
86-001075
86-001112
Matthews, K. R.
86-001098
Matthews, M. J.
86-005187
Matthews, R. A.
86-005043
Matthews, W. A.
86-004707
Matthews, W. J.
86-002465
86-003298
86-003310
86-004771
Matty, A. J.
86-002151
86-003965
Matuda, K.
86-001564
86-001972
86-005508
Mauchline, J.
86-001679
Maucorps
86-005684
Maufoy, C.
86-003391
Maugeri, T. L.
86-004965
Maughan, O. E.
86-000798
86-002872
86-003297
86-005382
Maule, A. G.
86-001701
Maulem, J.
86-003425
Maurel, P.
86-003612
May, B.
86-002762
May, S. A.
86-002466
Mayama, H.
86-004418
Mayden, R. L.
86-004869
Mayer F. L.
86-003107
Mayer-Gostan, N.
86-000252
86-001431
86-001432
Mayer, F. L.
86-001008
86-001884
86-001902
Mayer, F. L., Jr.
86-005288
86-005289
Mayer, K. S.
86-001008
86-005289
Mayes, M. A.
86-001009
86-003128
Mayr, B.
86-002603
Mayr, E.
86-004870
Mazeaud, M.
86-002496
Mazeaud, M. M.
86-000325
Mazzola, A.
86-000053

...CONTINUED...
Mazzola, A.
86-003511
Mbadu, K.
86-004708
Mbomba, N. B.
86-004560
McAfee, M. E.
86-003229
McAllister, C. D.
86-004272
McAllister, D. E.
86-002015
86-002016
86-002017
McAllister, K.
86-000872
McAllister, P. E.
86-000010
86-000902
86-002959
86-002994
86-005005
86-005058
McAndrew, B. J.
86-001537
McBride, D. N.
86-000584
McBride, J. R.
86-003966
McCabe, G. T., Jr.
86-002690
86-004709
McCain, B.
86-001917
McCain, B. B.
86-000909
86-004928
86-005186
McCallum, I. M.
86-003565
McCarter, J. A.
86-001918
86-003145
McCarthy, D. T.
86-005398
McCarthy, S. A.
86-001067
McCarthy, T. K.
86-002923
McCarton, B.
86-002731
McCauley, D. J.
86-000799
McCauley, R. W.
86-005539
McClanahan, L.
86-004249
McClanahan, L. L.
86-001473
McCleave, J. D.
86-001657
86-001726
86-001727
86-001743
McClelland, P. K.
86-005354
McClellen, S.
86-003307
McClure, R. E.
86-001083
McClurg, T. P.
86-003129
McCollum, K.
86-003967
McComb, T.
86-001228
McComish, T. S.
86-000683
McConnell, F. M.
86-002467
McCormack, M. L.
86-003380
86-003381
McCormick, S. D.
86-000326
McCosker, J. E.
86-003849
86-004199
McCoy, C. P.
86-000907
McCraren, J. P.
86-002065
McCullough, J. S.
86-005121
McCullough, S.
86-001303
McCune, A. R.
86-004871
McCurdy, W. J.
86-004645
McCuskey, P. A.
86-005268
McDonald, D. G.
86-001006
86-002468
86-005283
McDonald, J. F.
86-004326
McDonald, M. E.
86-000800
McDonnell, B.
86-000102
McDonough, C.
86-005286
McDowall, R. M.
86-003754
86-004872
McDowell, T.
86-000899
86-002991
McEachran, J. D.
86-000829
McEachron, L. W.
86-001151
86-003183
86-003215
McElroy, T. L.
86-004478
McElveen, J. D.
86-001061
McEnroe, M.
86-000327
McEwan, D. R.
86-002860
86-004677
McFarlane, G. A.
86-000716
86-001605
86-002006
86-003230
McGeachin, R. B.
86-000079
86-002161
86-002162
86-003452
McGeehan, L. T.
86-002257
McGill University Institute of Oceanography
86-005373
McGinnis, D. S.
86-005219

McGladdery, S. E.
86-001967
86-005122
McGlade, J.
86-003968
McGlade, J. M.
86-003271
86-004130
McGowan, J. C.
86-003130
McGowan, M. F.
86-001729
86-004873
McGowen, G. E.
86-004808
86-004910
86-005711
McGrath, C. J.
86-005399
McGrenra, M. J.
86-002107
McGriff, D.
86-004655
McHugh, J. L.
86-003336
86-003337
86-005658
McIlwain, T. D.
86-004290
McIntosh, G. S., Jr.
86-001099
86-001100
McIntyre, A. D.
86-003056
McIntyre, J. D.
86-004941
86-005032
McIntyre, R. H.
86-004070
McKay, L. R.
86-000731
86-002604
86-002605
McKay, M. C.
86-000328
86-003969
McKay, P.
86-005460
McKaye, K. R.
86-001171
86-002912
86-004874
McKee, D. C.
86-005453
McKelvey, R.
86-003221
McKelvie, D. S.
86-000769
Mckenzie, D. I.
86-004103
McKeown, B. A.
86-000425
86-001709
86-001916
86-002556
86-003821
86-004200
McKibben, J. N.
86-004204
86-004457
McKim, J. M.
86-003092
McKinney, S. P.
86-000743
McKlellan, S.
86-002831
McKnight, B.
86-001917
McLachlan, A.
86-001684
86-002354
McLain, D. R.
86-001344
McLain, L. R.
86-004085
McLaren, J. B.
86-000852
McLarney, B.
86-001308
McLaughlin J. J. A.
86-002952
McLean, E.
86-003970
McLean, S.
86-002187
McLeese, J. M.
86-003971
McMahon B. R.
86-002567
McMahon, B.
86-003844
McMahon, B. R.
86-002568
McMahon, T. E.
86-000532
86-004354
McManus, J. W.
86-004355
McMillan, D. N.
86-003923
McNatt, R. M.
86-004710
McNulty, J. A.
86-001474
McPhail, J. D.
86-000156
86-001394
86-001576
86-004158
86-004219
McPherson, B. P.
86-000924
McPherson, C.
86-003371
McPherson, G. R.
86-003972
McPherson, R.
86-000261
McQueen, D. J.
86-003635
86-004561
Meade, J. W.
86-000017
86-000916
86-001287
86-003444
Meade, T. L.
86-001880
Meador, M. R.
86-000770
Means, J. C.
86-001525
Mearns, K. J.
86-000329
86-003404
Mecum, R. D.
86-000499
Meder, J.
86-003019
86-005105
Medina, J.
86-001875

Medland, T. E.
86-002350
86-002351
86-003531
Mednick, A. S.
86-000172
Mednikov, B. M.
86-000837
86-004895
Medved, R. J.
86-000684
Medvedeva, I. M.
86-000469
Meehan, W. R.
86-002631
Meek, J.
86-001475
86-001476
86-003763
Meffe, G. K.
86-000545
86-001538
86-004131
86-004562
86-004762
Meggouh, F.
86-005583
Mehrle, P. M.
86-005263
Mehrle, P. M., Jr.
86-001010
Meier, A. H.
86-000611
86-002651
Meier, W.
86-005059
86-005060
Meiniel, A.
86-000330
Meiniel, R.
86-000330
Meisch, M. V.
86-001951
Meisler, M. R.
86-000830
Meissl, H.
86-003973
86-003981
Mel'nikov, A. V.
86-005509
86-005510
Melancon, E.
86-002855
Melancon, S. M.
86-005404
Meldrim, J. W.
86-005255
Melius, P.
86-003156
Mellergaard, S.
86-005082
Mellors, A.
86-003130
Melo, F. R.
86-003453
Melvin, G. D.
86-004201
Mendelson, B.
86-003755
Mendoza, J.
86-005650
Menezes, N. A.
86-002917
Meng, H. J.
86-005479
Mennesson, C.
86-000599
Menni, R. C.
86-004711
Menon, K. B.
86-003054
Menyani, W. W.
86-001171
Menzel, B. W.
86-003196
86-004459
Merchant, B.
86-000420
Mergo, J. C., Jr.
86-003029
Meriwether, F. H. II
86-002087
Merna, J. W.
86-005188
Merona, B.
86-005599
Merrett, N. R.
86-001590
Merriner, J. V.
86-000696
86-004174
86-004690
Merritt, G. O.
86-001101
Merritt, M. F.
86-004419
Mesick, C.
86-004374
Mesing, C. L.
86-002652
Messager, J. L.
86-002392
Mesyatsev, I. I.
86-004458
Metailler, R.
86-002132
86-002150
Metcalfe, J. D.
86-002258
Metcalfe, N. B.
86-002653
Metelev, V. V.
86-005189
Methot, R. D.
86-001616
86-004751
Mettee, M. F.
86-005480
Metzger, R. J.
86-003261
Meunier, A.
86-002374
Meydrech, E. F.
86-002307
Meyer-Rochow, V. B.
86-002267
Meyer, D. L.
86-002284
86-003807
Meyer, F. P.
86-001007
86-002038
86-005311
Meyer, J.
86-002583
86-002593
Meyer, J. L.
86-002207
Meyer, J. S.
86-001037

...CONTINUED...
Meyer, J. S.
86-001864
Meyer, M. K.
86-001329
Meyers, L. S.
86-005573
Meyers, T. R.
86-000924
Meyn, E. L.
86-000999
86-003159
Mhone, O. K.
86-001171
Miaorong, Y.
86-002903
Micale, V.
86-003974
Micha, J.
86-002773
86-004420
Michael, E.
86-004356
Michaud, D. T.
86-001102
86-001103
Michel, C.
86-002932
86-004984
Michener, W. K.
86-000732
Michibata, H.
86-003131
Michurin, S. M.
86-004916
Middaugh, D. P.
86-001644
Middendorp, A. J.
86-003382
Middlebrook, K.
86-003661
Middleton, M. J.
86-001075
Middleton, R. W.
86-002861
Midttun, L.
86-005717
Miettinen, V.
86-005190
Migel', M. S.
86-005498
Mihara, S.
86-000323
86-000324
Mikac, N.
86-000957
Mikami, T.
86-003369
86-004929
86-004968
86-004969
86-004977
86-004978
Mikel, T. K., Jr.
86-001104
Mikhajlyuk, A. N.
86-004318
86-004763
Mikhaylov, V. V.
86-002729
Mikhaylyuk, A. N.
86-001477
Mikheev, V. N.
86-002789
Miki, I.
86-004416
Miklas, J. J.
86-000609
Milhaud, G.
86-001434
Miliang, Z.
86-004875
Millar, R. P.
86-002493
Millburn, P.
86-001896
86-005252
Miller, A. C.
86-000719
Miller, D.
86-005688
Miller, D. J.
86-004197
Miller, D. R.
86-001662
Miller, G. E.
86-003454
Miller, M.
86-003246
Miller, M. L.
86-004459
86-005369
Miller, N. W.
86-003856
Miller, R.
86-001591
Miller, R. J.
86-003138
Miller, R. R.
86-000819
86-001764
86-004354
86-005359
Miller, S. J.
86-000733
Miller, S. K.
86-005659
Miller, T.
86-002641
Miller, V. G.
86-002035
Miller, W. J.
86-000969
Milligan, C. L.
86-002470
Milliman, S.
86-001229
Milliman, S. R.
86-001211
Milling, D. M.
86-001539
Millner, R. S.
86-003262
Mills Westermann, J. E.
86-003832
86-003833
Mills, C. A.
86-002887
Mills, E. L.
86-001346
86-004561
Mills, J. W.
86-002259
86-002435
86-002436
Mills, K.
86-001754
Milner, A.
86-001188
Milner, G. B.
86-000458

...CONTINUED...
Milner, G. B.
86-002610
Milner, N. J.
86-003299
Milsom, W. K.
86-000331
Miltner, M.
86-002093
Milton, D. A.
86-004229
Milward, N. E.
86-000640
Mims, S. D.
86-003357
Mina, M. V.
86-002580
Minami, T.
86-000546
86-000547
Minckley, C. O.
86-001775
86-004274
Minckley, W. L.
86-001775
86-004407
86-004693
Mincolla, J. A.
86-001051
Minervini, R.
86-005433
Ming Huang, P.
86-005326
Mingcheng, T.
86-004712
Mingxing, L.
86-005191
Minkley, W. L.
86-005600
Minnard, J.
86-004724
Minns, C. K.
86-005192
Minshull, J. L.
86-004713
Minton, A. L.
86-003756
Miquelarena, A. M.
86-002260
Miranda, L. E.
86-004563
Mirenda, T. J.
86-004574
Mires, D.
86-000038
Mironovskiy, A. N.
86-002249
Mirzoyan, Z. A.
86-001311
Mishima, S.
86-003747
Mishra, A. P.
86-004041
Mishra, B. K.
86-001804
Mishra, B. P.
86-000255
Mishra, D. N.
86-003475
Mishra, N.
86-003757
Misra, M.
86-003994
Misra, R. K.
86-000459
86-004357
Mississippi River
86-005392
Mitchell, A. I.
86-003562
Mitchell, A. J.
86-004923
Mitchell, C. P.
86-004358
Mitchell, S. A.
86-002032
Mitjans, G.
86-001365
Mito, S.
86-004808
Mitson, R. B.
86-005718
Mitsuda, H.
86-001511
Mitsuhashi, K.
86-005676
Mittal, A. K.
86-003757
86-003975
Mittal, P. K.
86-003054
Mittelbach, G.
86-004564
Miura, T.
86-004565
Miwa, S.
86-000279
86-002471
Miya, M.
86-004275
Miyagawa, M.
86-002654
Miyamoto, M.
86-002448
Miyazaki, T
86-004986
Miyazaki, T.
86-001805
86-001806
86-001813
86-002981
86-003566
86-004973
86-004985
86-005020
86-005034
86-005061
86-005062
86-005654
Miyazaki, Y.
86-001973
Mizuarai, Y.
86-003364
Mizuguchi, K.
86-004375
Mizuno, T.
86-001931
Moav, R.
86-000749
Moccia, R. D.
86-002152
86-003064
Mochizuki, A.
86-001499
Modde, T.
86-000001
86-005400
Moerland, T. S.
86-000332
86-001478
86-002472

Moestrup, O.
86-001873
Moffitt, R. B.
86-005670
Mogil'naya, N. A.
86-002261
Mogilevskij, P. I.
86-005524
Mohamad Kasim, H.
86-000161
Mohammed, A. M.
86-002811
Mohan, C. V.
86-005038
Mohan, M.
86-000548
Mohan, P.
86-000113
Mohanraj, G.
86-000030
Mohd Said, M. Z.
86-002810
Mohr, L. C.
86-000644
86-001479
Mohsin, A. K. M.
86-002810
Moir, R.
86-004103
Moiseeva, E. B.
86-002261
Moiseyeva, E. B.
86-001300
Moksnes, E.
86-001276
Moles, A.
86-004054
Mollah, M. F. A.
86-000333
Moller, H.
86-005115
Molnar, K.
86-002982
86-002983
86-005039
Molodykh, L. G.
86-003934
Molsa, H.
86-001230
Mommsen, T. P.
86-000334
86-002444
86-002473
Momot W. T.
86-003288
Monaco, G.
86-000039
86-002066
Mongeau, J.
86-001301
Mongillo, P.
86-005601
Monod, G.
86-001011
Monostory, Z.
86-002606
Monstad, T.
86-000723
Montanes, C.
86-004349
Monteleone, D. M.
86-004566
Montelongo, F. G.
86-003062
Montgomerie, R. D.
86-001609
Montgomery, J. C.
86-000500
86-001480
86-003956
Montgomery, W. I.
86-005121
Montgomery, W. L.
86-002641
Monti, L. B.
86-002355
Montoro, R.
86-003850
Moodie, G. E. E.
86-004198
Moon, T. W.
86-000334
86-001887
86-002375
86-003829
Moore, C. J.
86-003338
Moore, G. K.
86-005660
Moore, J. E.
86-005712
Moore, L. K.
86-000955
Moore, R. H.
86-000162
Moore, W. S.
86-000441
86-001530
Morantz, D. L.
86-003624
Moreau, G.
86-000130
86-000979
Moreira-Filho, O.
86-002582
Moreno, T.
86-004525
Morgan, A. K.
86-004070
Morgan, G. R.
86-002730
86-003216
86-004359
Morgan, J. L. M.
86-000422
Morgan, R. P. II
86-002595
Morgan, W. S. G.
86-005193
Morgenstern, B.
86-005719
Moring, J. R.
86-000543
86-000951
86-001105
86-001152
86-001172
86-001566
86-001750
86-002862
86-003197
86-004263
86-004524
Moring, M. E.
86-001566
Morita, Y.
86-004053
Morizot, D. C.
86-005456
86-005465
Mork, J.
86-000460

Morman, R. H.
86-001534
Morris, D. P.
86-003121
Morris, D. W.
86-000537
Morris, I. G.
86-002306
Morris, J. R.
86-001854
Morris, R.
86-001025
86-001923
Morrison, C. M.
86-001815
86-002984
Morrison, J. K.
86-002053
86-003405
Morrison, P. F.
86-000801
86-001755
Morrison, T.
86-002769
86-003264
Mortensen, E.
86-000335
Morton, R. M.
86-004421
Mos, W.
86-002474
Moser, H. G.
86-001393
86-003679
86-003736
86-003758
86-003759
86-003789
86-003808
86-004264
86-004783
86-004879
Moser, M.
86-001848
86-002934
86-003040
86-005123
86-005124
Mosier, D. T.
86-000273
Moskal'Kova, K. I.
86-001567
Mosley, M. P.
86-001244
Moss, D. D.
86-002033
86-003235
Motais, R.
86-000317
86-001509
Motin, A.
86-000210
Motro, B.
86-004981
Motyka, K.
86-002427
Mouat, G. S. V.
86-003978
Mouje, P. M.
86-004922
Moukhtar, M. S.
86-001434
Moulton, L. L.
86-004202
Mounce, D. E.
86-003407
Moussalli, E.
86-001981
Moustafa, M.
86-004929
86-004968
86-004969
86-004977
86-004978
Moyer, J. T.
86-001702
Moyle, P. B.
86-003314
86-004360
86-004753
Mrowka, W.
86-004422
Mudge, J. E.
86-005290
Mueller, G.
86-000148
Muessig, P. H.
86-005537
Mughal, M. S.
86-003976
Mugiya, Y.
86-002475
Muhaisen, F. D.
86-002190
Muir, D. C. G.
86-001911
Muir, J. F.
86-000011
Muir, W. D.
86-002690
Mujica R., A.
86-000623
Mukherjee, S.
86-000033
Mukhina, L. E.
86-003406
Mukhopadhyay, M. K.
86-005279
Mulcahy, D.
86-002995
Mulford, C.
86-000688
Mullen, A. J.
86-003977
86-003988
86-005564
Mullen, D. M.
86-001105
Muller, G.
86-004423
Muller, K.
86-002512
86-004460
Muller, M.
86-001680
86-003769
86-004567
86-004608
Muller, R.
86-005479
Mulligan, T. J.
86-005720
Mumaw, L.
86-002054
Mummert, J. R.
86-004568
Munawar, M.
86-003667
Mundahl, N. D.
86-001681
Munday, B. L.
86-000874

Mundie, J. H.
86-003407
Mundy, B. C.
86-001715
Munekiyo, M.
86-000685
86-004461
Mungkaje, A. J.
86-005125
Muniz, I. P.
86-005261
Munk, P.
86-004276
86-004533
Munk, R.
86-005237
Munro
86-005449
Munro, A. D.
86-000336
Munro, A. L. S.
86-004952
86-004953
Munro, J. L.
86-005661
Munshi, J. S. D.
86-003725
86-003760
86-003761
Munson, A. D.
86-000896
Muntz, W. R. A.
86-003978
Munz, H.
86-000337
Murachi, S.
86-000417
Murai, T.
86-000061
Murakami, M.
86-000070
Murakami, T.
86-002262
86-003728
Murakami, Y.
86-005044
Muramoto, S.
86-005291
Murata, M.
86-004022
Murata, O.
86-000366
86-000367
86-003434
Murav'ev, V. B.
86-005511
Murawski, S. A.
86-001982
Murayama, Y.
86-001540
Murith, D.
86-005079
Muroga, K.
86-001802
86-004987
86-004989
86-005044
86-005246
86-005293
Murphy, B. R.
86-000503
86-000744
86-002937
86-003308
Murphy, G. G.
86-005323
Murphy, K.
86-003953
Murphy, M. L.
86-003189
86-004203
86-005401
Murray, A. P.
86-003567
Murray, C. B.
86-000789
86-001351
86-002221
86-003979
86-004745
Murray, K. R.
86-002329
Murty, A. S.
86-003132
86-005292
Musch, M. W.
86-002467
Mushacke, F. M.
86-003051
Mushiake, K.
86-005293
Musial, C. J.
86-005216
Musick, J. A.
86-002861
Mutenia, A.
86-005434
86-005577
Muth, K. M.
86-004361
86-004714
Muth, R. T.
86-004402
86-005104
Mutysheva, G. K.
86-001760
Muzzall, P. M.
86-001797
86-005126
Myatt, D. O.
86-001106
Myers, M.
86-001917
Myers, M. A.
86-001503
Myers, M. S.
86-000909
86-000955
86-005186
Myers, R. A.
86-000613
86-002476
86-002477
Myren, R. T.
86-005402
Mysak, L. A.
86-003619
86-004754
86-004764
Myskov, A. S.
86-005512
Mytsul, V. F.
86-005513
86-005514
Naegel, L. C. A.
86-002034
Naesje, T. F.
86-004277
86-004462
Nagahama, Y.
86-000338

...CONTINUED...
Nagahama, Y.
86-002536
Nagai, Y.
86-002255
Nagamura, Y.
86-003980
86-004988
Nagarajaiah, C. S.
86-003455
Nagasawa, K.
86-005127
Nagashima, Y.
86-000988
Nagel, R.
86-001924
86-004424
Nagiec, C.
86-001165
Nagiec, M.
86-001165
Nagle, R. E.
86-003366
Nagler, J. J.
86-005294
Nagoshi, M.
86-004278
Nagy, A.
86-002606
Nagy, S.
86-004569
Nahorniak, C. S.
86-000392
86-001305
Naiman, R. J.
86-004781
Naka, K.
86-001387
86-002242
Nakahara, M.
86-003155
86-005175
Nakai, T.
86-000875
86-001802
86-004987
86-004989
86-005293
Nakai, Y.
86-002601
86-005021
Nakajima, M.
86-004128
Nakajima, Y.
86-002263
Nakakuki, M.
86-001540
Nakamoto, R. J.
86-005194
Nakamoto, W.
86-004132
86-004133
Nakamura, I
86-004715
Nakamura, K.
86-000339
Nakamura, M.
86-001107
86-003253
Nakamura, N.
86-002264
Nakamura, R.
86-003155
Nakamura, R. M.
86-003030
Nakamura, T.
86-003973

...CONTINUED...
Nakamura, T.
86-003981
Nakamura, Y.
86-003982
Nakanishi, T.
86-000047
86-000464
86-002478
Nakano, E.
86-001371
Nakano, H.
86-002691
86-003707
86-003891
Nakao, M.
86-002575
Nakaoka, H.
86-000262
Nakase, K.
86-005021
Nakashima, T.
86-002670
Nakauchi, R.
86-005062
Nakken, O.
86-005700
Nalewajko, C.
86-001347
86-002208
86-003634
86-003640
86-003670
Nanba, K.
86-000417
Nandi, N. C.
86-000477
Narain, A. S.
86-005195
Narasinga Rao, B. N.
86-002315
Narayan Ram, R.
86-003133
Narayanan, R.
86-001233
Narf, R. P.
86-003287
Narkates, A. J.
86-001485
Naruse, K.
86-000461
Nash, N. T.
86-002499
Nash, R. D.
86-000634
86-000645
Naskar, K.
86-002153
Natanson, L. J.
86-004627
Natarajan, A. V.
86-003383
86-005615
86-005616
86-005617
Nath, P.
86-005195
National Research Council
86-001320
National Wetlands Inventory Group
86-001252
Natochin, Y. V.
86-001462
86-004034
Natoli, G.
86-002381

Neally, N.
86-001586
Neas, N. P.
86-000340
Neave, D. A.
86-003762
Nebiolo G., E.
86-001730
Nederstigt, L. J. A.
86-001481
Negele, R. D.
86-005105
Negishi, S.
86-000341
Negus, M. T.
86-003197
Nehring, R. B.
86-005450
Neill, W. H.
86-000472
86-003962
Neilson, J. D.
86-000163
86-000665
86-000734
86-002265
86-003799
86-004646
Neitzel , D. A.
86-004746
Neitzel, D. A.
86-003268
Nekvasil, N. P.
86-001482
Nellbring, S.
86-000585
86-002757
Nelson, D. R.
86-000492
86-004204
86-004457
Nelson, F. A.
86-004765
Nelson, J. S.
86-002274
86-004876
86-004974
86-004990
Nelson, L. J.
86-005441
Nelson, M. O.
86-001618
Nelson, P. C.
86-000532
86-000536
86-000552
86-000554
86-000562
Nelson, R. A.
86-004534
Nelson, R. E., Jr.
86-002007
Nelson, R. G.
86-001270
Nelson, R. L.
86-000832
86-001111
86-001245
Nelson, R. S.
86-000682
86-000735
Nelson, S. G.
86-002078
Nemcova, M.
86-004413
Nemcsok, J.
86-000981
Nemoto, T.
86-004275
Nemtzov, S. C.
86-000342
Neophytou, C. N.
86-002692
Nero, R. W.
86-003662
Nesler, T. P.
86-005435
Netsch, N.
86-005355
Neugebauer, D. C.
86-000158
Neuman, E.
86-005178
Neumann, W.
86-005004
Neumeyer, C.
86-002655
Neushul, M.
86-001108
Neves, R. J.
86-000561
86-000586
86-001241
Neville, C. M.
86-001912
Nevinskiy, M. M.
86-002714
New Hampshire Fish and Game Department
86-001943
New, J. G.
86-000343
Newkirk, G. F.
86-002607
Newman, L.
86-000777
Newman, M. W.
86-002154
Newman, R. M., Jr.
86-004362
Newman, S. G.
86-004991
Newsome, G. E.
86-002266
Newsted, J.
86-003101
Nezdolij, V. K.
86-004442
Ng, K. G.
86-000302
Ng, T. B.
86-002479
86-003983
Ngamvongchon, S.
86-003456
Nicholl, R.
86-000489
Nichols, S. J.
86-004696
Nichols, W. C.
86-001294
Nicholson, B. L.
86-005065
86-005066
Nicholson, C.
86-002414
86-002480
Nicholson, L. C.
86-001338
Nicholson, W. R.
86-004463

Nickelson, T. E.
86-004766
Nickum, J. G.
86-003457
86-004471
Nicolette, J. P.
86-002706
Nicoll, C. S.
86-000403
Nie, D.
86-004930
Niebeek, G.
86-001031
Nielsen, E.
86-005082
Nielsen, J.
86-004743
Nielsen, J. G.
86-001776
Nielsen, J. L.
86-004668
Nielsen, L. A.
86-002815
Nielsen, O.
86-000905
86-005073
Niemi, A.
86-004380
86-005575
Nieto, T. P.
86-004992
Nieuwenhuys, R.
86-001475
86-001476
86-003763
Nigam, G. D.
86-003975
Nightingale, J.
86-002054
Nigrelli, R. F.
86-001829
Niimi, A. J.
86-005285
Nijssen, H.
86-001777
Nikanorov, Y. R.
86-005380
Nikiforova, T. B.
86-001589
Nikinmaa, M.
86-002469
86-002481
86-003984
86-004134
Nikol'skiy, V. N.
86-002768
Nikolaidis, N. P.
86-001868
Nikonorov, S. I.
86-000164
86-002608
Nikulina, V. N.
86-004918
Nikunen, E.
86-003157
Nilssen, J. P.
86-001672
86-003626
Nilssen, J. P. M.
86-004493
Nilsson, S.
86-000389
86-002412
Nimi, A. J.
86-000958

...CONTINUED...
Nimi, A. J.
86-001913
86-003134
Nimmo, I. A.
86-001495
86-002482
Nishida, M.
86-000462
Nishide, E.
86-004060
Nishikawa, Y.
86-004806
Nishimoto, K.
86-002534
Nishimura, H.
86-003985
Nishimura, T.
86-005063
86-005064
Nishioka, R. S.
86-000344
86-000393
86-004015
86-005240
Nishita, K.
86-003939
Nishiyama, T.
86-003908
86-004425
Niskanen, P.
86-005677
Noakes, D. L. G.
86-000802
86-001568
86-004570
Noble, P.
86-002711
Noble, R. L.
86-003372
Noda, M.
86-001540
Noel, H. S.
86-005515
Noeske-Hallin, T.
86-000394
Noga, E. J.
86-001810
86-005128
Noguchi, M.
86-004023
Noguchi, T.
86-000366
86-000367
Noltie, D. B.
86-002656
86-003367
86-004426
Nomani, A. A.
86-000937
Nomata, H.
86-001483
86-001484
Nomura, J.
86-000862
86-004993
Nomura, M.
86-000170
86-002076
86-002347
Nomura, T.
86-004038
Nonnotte, G.
86-001379
86-001416
86-001890

Nonnotte, L.
86-001379
86-001890
Noonan, P.
86-003145
Nor, L. A.
86-000549
Nord, M. E.
86-004511
Norman, D.
86-003368
Norman, M. D.
86-002782
Norris, J. E.
86-004574
Norris, R. H.
86-001859
North, M. J.
86-003124
Northcote, T. G.
86-000165
86-000941
86-003244
86-004481
86-004571
86-005618
Northcutt, R. G.
86-000166
86-000206
86-003764
Northern Ireland Department of Agriculture
86-001944
86-001959
Northstrom, T. E.
86-005290
Norton, J. G.
86-001344
Nortrupt, D. A.
86-003059
Nosaki, Y.
86-000262
Nose, T.
86-000061
Nose, Y.
86-000592
Novak, A.
86-005688
Novikov, G. G.
86-000409
86-002041
86-003263
Novikov, Y. V.
86-004716
Novikova, G. G.
86-003752
Novoselova, G. N.
86-004343
Nowak, M.
86-003402
Nowak, W.
86-005184
Nozaki, M.
86-002483
86-003986
Noznov, A.
86-000103
Nuland, A. M.
86-002422
Numann, W.
86-001541
Nunan, C. P.
86-000802
86-001568
Nunez-Rodriques, J.
86-002420
Nurnberg, G. K.
86-003635
Nusbaumer, D.
86-004702
Nygaard, K. H.
86-004210
Nyronen, J.
86-005196
O'Boyle, R. N.
86-004464
O'Brian, W. J.
86-004572
O'Connor, D. V.
86-002657
O'Gorman, R.
86-004363
O'Grady, K. T.
86-003568
O'Keefe, P. W.
86-001865
O'Leary, J. A.
86-004465
O'Neil, S. P.
86-004476
O'Sullivan, D.
86-001302
O'Sullivan, J.
86-002385
Oakes, D.
86-002035
Oakley, D. A.
86-001267
Obara, S.
86-003987
Obenauf, S.
86-000390
Ober, A.
86-005207
Obika, M.
86-002263
86-002267
Obregon-Morales, M. E.
86-005217
Obregon, M. H.
86-003613
Ochi, H.
86-004427
Ochman, S.
86-003794
Odense, P.
86-002451
Odense, P. H.
86-001413
Odin, N.
86-001935
Ofitserov, M. V.
86-002608
Ogata, H.
86-000345
86-000346
86-002155
86-002484
Ogawa, K.
86-005129
86-005130
86-005131
86-005132
Ogburn, M. V.
86-001096
Ogden, J. C.
86-000621
Ogilvie, D.
86-002288
Ogle, J.
86-002191

Ogren, L.
86-002802
Oguri, M.
86-000167
86-003765
Oh, Y.
86-003135
Ohnishi, K.
86-004994
Ohta, H.
86-003408
Ohta, T.
86-002540
Oikari, A.
86-001012
Oikari, A. O. J.
86-000347
86-001914
Oikawa, S.
86-000168
Ojaveer, E.
86-004767
Ojeda, G. M.
86-002122
Ojha, J.
86-003757
86-003761
Ojima, T.
86-003939
Ojima, Y.
86-004149
Okada, H.
86-002055
86-002726
Okamoto, H.
86-005662
Okamoto, N.
86-005021
Okamoto, T.
86-005409
Okamura, W. Y.
86-002087
Okazaki, T.
86-002904
86-004135
Okihiro, M. S.
86-003030
Okino, M.
86-003364
Okiyama, M.
86-003766
86-004877
Oladimeji, A. A.
86-005295
Olah, J.
86-002946
86-003384
86-003387
86-005278
Oldfather, J. M.
86-002194
Olesen, N. J.
86-002996
Olin, T.
86-002485
Olivari, G.
86-004626
Oliver, B. G.
86-000958
86-001913
Oliver, J. R.
86-003743
Oliver, N. P.
86-001173
Olivereau, M.
86-002319
Olla, B. L.
86-000507
86-001569
86-001682
86-004652
Ollevier, F.
86-002225
86-002419
86-003850
86-003944
Olmsted, L. L.
86-004672
86-004717
Olney, J. E.
86-004829
86-004878
Olsen, K.
86-005721
Olsen, K. H.
86-002658
86-002659
Olsen, P. E.
86-004871
Olsen, Y.
86-002209
86-003665
Olson
86-005663
Olson, A. C., Jr.
86-005113
Olson, J. R.
86-003114
86-003115
Olson, K. R.
86-001482
86-001485
86-003761
Olson, O. P.
86-001917
Olson, R. E.
86-003023
Olson, R. J.
86-003988
86-004573
Olson, R. W.
86-001952
Olssen, T. I.
86-004768
Olsson, M.
86-003078
Olsson, R.
86-004824
Olufemi, B. E.
86-001816
86-002970
Omarov, O. P.
86-000686
Omeljaniuk, R. J.
86-003989
Omura, Y.
86-003990
Ona, E.
86-003361
Onitake, K.
86-003991
Onizaki, S.
86-004979
Ono
86-005664
Onozato, H.
86-001642
86-003812
Onstott, D.
86-003992
Ooshiro, Z.
86-000264

Oparil, S.
86-001485
Opperhuizen, A.
86-000959
86-005167
86-005197
86-005208
Opuszynski, K.
86-002023
Organization for Economic Co-Operation and Development
86-005665
Oris, J. T.
86-005296
86-005297
Orlob, G. T.
86-002037
Orlov, A. V.
86-004222
Orr, P. L.
86-001915
Orrell, T. M.
86-003767
Orsatti, S. D.
86-002777
Ortal, R.
86-001995
Ortega, S.
86-000687
Orth, D. J.
86-005183
86-005598
Ortlepp, J.
86-003544
Ortner, P. B.
86-001670
Orvos, D. R.
86-001866
Orwicz, K.
86-000910
Osborne, J. A.
86-000002
Ose, Y.
86-001931
Osgood, K. E.
86-000609
Oshiro, T.
86-000047
86-000464
Osipov, A. S.
86-004931
86-004934
Osipov, V. G.
86-000646
Osmanov, S. O.
86-002935
Osse, J. W. M.
86-001680
86-003680
86-003768
86-003769
Osteen, D. V.
86-003756
Osterkorn, K.
86-005105
Ostroumova, I. N.
86-003569
86-003570
Osuga, D. T.
86-002314
86-002315
86-003848
Otake, S.
86-001499
Ototake, M.
86-004995
Otsu, K.
86-004948
Otsuki, T.
86-005666
Otten, E.
86-003770
Otto, C.
86-002772
Otto, T.
86-001837
Ottolenghi, C.
86-002486
Ouellet, P.
86-000647
Ouji, M.
86-000175
Oulasvirta, P.
86-000624
Ourth, D. D.
86-004002
Outlaw, H. E.
86-001303
Ovcharenko, N. A.
86-005040
Ovcharov, O. P.
86-002768
Ovchinnikov, V. V.
86-004466
Oven, L. S.
86-001645
Overholtz, W. J.
86-001619
86-005667
Overstreet, R. M.
86-000912
86-003108
86-005265
Ow, M. D.
86-001213
Owada, K.
86-000348
Owens, W. J.
86-005058
Oyen, F. G. F.
86-002681
Ozaki, H.
86-001002
86-003163
86-003164
Ozerin V. K.
86-004718
Ozrina, R. D.
86-005298
Paasivirta, J.
86-000971
86-001870
Paavilainen, K.
86-005198
Pacheco, A. L.
86-002699
86-003339
Pacific Fishery Management Council
86-002008
86-002009
Padron, F. G.
86-004559
Page, L. M.
86-001646
86-004884
Page, M.
86-005194
Page, T. L.
86-003268
Pageau, G.
86-000817

Pagliarani, A.
86-002487
Pahlke, K. A.
86-000550
Paine, M. D.
86-001380
86-003771
Pakhorukov, N. P.
86-004687
Pakulska, D.
86-003993
Pal, B. C.
86-002095
Palafox, D.
86-001901
Palanichamy, S.
86-001013
Palawski, D. U.
86-001884
86-001902
Palazzo, V.
86-003134
Palko, B. J.
86-005425
Palm, T.
86-005199
Palmer, D.
86-004625
Palmork, K. H.
86-001027
Palomaki, R.
86-005575
Pan, J.
86-004930
Pandare', D.
86-002790
Pandey, A. K.
86-000384
86-001022
86-001023
Pandey, K.
86-003994
86-003995
Pandit, P. K.
86-005279
Panek, A. C.
86-001486
Panek, F. M.
86-003217
Pang, P. K. T.
86-002488
Pang, R. K.
86-002488
Pankhurst, N. W.
86-001487
86-002489
86-002490
Panov, B. N.
86-003621
Pant, J. C.
86-001900
Papaconstantinou, C.
86-002776
86-004279
Papageorgiou, N. C.
86-002692
Papaparaskeva-Papoutsoglou, E.
86-000062
86-001312
86-002156
Papas, T. S.
86-002622
Paperna, I.
86-000891
86-004932

...CONTINUED...

Paperna, I.
86-005041
Papoutsoglou, S. E.
86-005225
Pappantoniou, A.
86-002636
86-002660
Pappas, B. A.
86-002058
Paragamian, V. L.
86-002863
Parenti, L. R.
86-002268
86-002269
86-002905
86-004719
Parfenovich, S. S.
86-000587
Parin, N. V.
86-000771
86-000814
86-002858
86-002864
86-004808
Parina, O. V.
86-005298
Paris, J.
86-003485
86-003527
86-004530
Parish, N.
86-002270
Park, C. M.
86-004068
Park, D. L.
86-002464
86-005540
Park, J. W.
86-005052
Park, K.
86-005455
Park, S. W.
86-002953
86-003024
Parker, B. R.
86-004683
Parker, J. H.
86-001109
86-003202
Parker, N. C.
86-000231
86-002171
86-003232
86-003590
Parker, R. M.
86-002599
Parker, W. M.
86-000942
Parkhurst, L. J.
86-002322
Parks, J. W.
86-005200
Parks, W.
86-003031
Parland, W. K.
86-003136
86-005299
Parmanne, R.
86-000624
86-005436
86-005677
86-005678
86-005679
Parmentier, H. K.
86-000304

...CONTINUED...
Parmentier, H. K.
86-001381
Parmley, D.
86-000688
Parrish, J. D.
86-004574
86-004632
Parrish, M. J.
86-001480
Parrish, R. H.
86-001703
Parsons, D. G.
86-004308
Parsons, G. R.
86-001592
Parsons, J. W.
86-002832
86-003079
Parsons, S. M.
86-002297
Part, P.
86-005235
86-005300
Partridge, F. E.
86-004673
Parukhin, A. M.
86-000925
86-004933
Pasch, R. W.
86-005602
Pascoe, D.
86-001919
86-005201
86-005301
Pascoe, P. L.
86-002791
86-005493
Pascual, M.
86-004613
Pashchenko, N. I.
86-002648
Pashina, T. I.
86-003616
Pasmanik, M.
86-000349
Pasteur, R.
86-003137
Pastor, A.
86-001875
Pastoureaud, A.
86-000406
86-003525
Pastukhov, D. V.
86-005157
Paszkowski, C. A.
86-001682
86-001761
Paterson, W. D.
86-004996
Patil, G. P.
86-005541
Patila, A.
86-000952
Patino, R.
86-000350
86-000351
86-003996
Patlak, C. S.
86-002336
Patrick, P. H.
86-001198
86-001199
86-005534
Pattee, E.
86-004346

...CONTINUED...
Pattee, E.
86-004723
86-005583
Patterson, I. J.
86-004205
Patterson, K. R.
86-004575
Pattillo, P. L.
86-002763
Patton, D. R.
86-001243
Patton, M.
86-002442
86-002443
Patton, M. L.
86-001110
Patzner, R.
86-001493
Paufler, S.
86-002602
Paul, A. J.
86-003908
86-003997
86-004045
Paul, B.
86-001347
86-003634
Paul, E. A.
86-000939
Paul, J. M.
86-004045
Pauley, G. B.
86-001095
86-004270
Paulin, C. D.
86-001778
86-004720
Paulsen, H.
86-004276
86-004957
Paulson, G.
86-002309
Paulson, R. L.
86-005262
Paus, M.
86-000649
Pauwels, S. J.
86-003065
Pavanelli, G. C.
86-003012
Pavlov, D. A.
86-000352
86-002041
Pavlov, D. S.
86-000772
86-003231
86-004442
Pavlov, V. Y.
86-003663
86-003664
Pavlovskiy, S. A.
86-000698
Pavri, C.
86-000302
Paxton, J. R.
86-003758
86-004576
86-004715
86-004879
Paycana, J. B.
86-004921
86-005031
Payne, A. I.
86-002731
86-003458

Payne, J. F.
86-005266
Payne, R. A.
86-005133
Payson, P. D.
86-005319
Payton, B. M.
86-000960
Pazkowski, C. A.
86-001569
Peake, J. F.
86-001771
Pearce, J. B.
86-001253
Pearcy, W. G.
86-002727
Pearre, S., Jr.
86-003656
Pearse, J.
86-001140
Pearson, W. H.
86-001833
Pease, B. C.
86-001075
Pechlaner, R.
86-004577
Peckarsky, B. L.
86-001671
86-003647
Pedder, S. C. J.
86-005202
Peden, A. E.
86-004721
86-004880
Pedersen, M.
86-002010
Pederson, S. M.
86-003675
Pedretti, J. W.
86-003254
Pedroli, J.
86-003409
86-004364
Peebles, C. R.
86-005126
Peirson, G.
86-002806
Pel'nik, V. V.
86-005704
86-005722
Pelizaro, M. G.
86-003998
Pell, I. B.
86-005251
Pellegrini, M.
86-003246
Pelletier, X.
86-000309
Pellizzato, M.
86-005042
Penaz, M.
86-001647
86-004559
86-004722
Pence, D. B.
86-002937
Penlington, B.
86-003049
Penney, R. W.
86-000169
86-001382
Pennington, C. H.
86-005403
Penny, L. T.
86-002646
Pepper, V. A.
86-001173
Pequeno R., G.
86-001731
Percy, L. R.
86-002271
Perdichizzi, F.
86-003974
Pereira, D. L.
86-000736
Pereira, M. E.
86-004136
Pereira, S. M.
86-001096
Perensovich, M. P.
86-005412
Perez, F.
86-003613
Perez, K.
86-005092
Perez, M. L.
86-002372
Perez, R.
86-004964
Perkins, J. L.
86-005205
Perlman, D. F.
86-002571
Perlman, P. W.
86-004030
Perlstein, M. T.
86-004939
Perrot, M. N.
86-002491
Perry, S A.
86-002206
Perry, S. F.
86-000353
86-000354
86-001488
86-002243
86-002349
86-002733
86-003999
86-004074
Perry, W. B.
86-002206
Perry, W. G.
86-002067
86-002088
86-002769
86-003264
Persat, H.
86-002764
86-004346
86-004723
Perschbacher, P. W.
86-000040
86-000058
86-002123
Persson, B.
86-004768
Persson, L.
86-002888
86-004000
Persson, P.
86-005203
86-005690
Pessacqasenjo, T. P.
86-003773
Pestrak, J. M.
86-000044
Peter, R. E.
86-000392
86-001305

...CONTINUED...
Peter, R. E.
86-001471
86-002420
86-002490
Peterman, R. M.
86-000355
86-004365
Peters, G.
86-001489
Peters, L. E.
86-005086
Peters, M. M.
86-002836
Peters, R. C.
86-001490
Petersen, J. C.
86-003138
Peterson, B. J.
86-002201
Peterson, C. W.
86-001441
86-004428
Peterson, D. C.
86-000691
86-000753
Peterson, G. L.
86-005440
86-005441
Peterson, K. A.
86-000491
Peterson, M. S.
86-000677
Peterson, R. E.
86-002036
86-003114
86-003115
Peterson, R. H.
86-003139
86-004001
Peterson, S. B.
86-003386
Peterson, W. T.
86-004566
Petr, T.
86-003300
86-005481
Petrick, F. O.
86-004698
Petrosky, C. E.
86-005482
Petruska, J.
86-000438
Pettit, M. J.
86-000197
Petts, G. E.
86-001997
Peute, J.
86-000207
86-000356
86-001418
86-002309
Peyrichoux, J.
86-002272
Pezold, F. L.
86-000831
Pfeiffer, W.
86-001491
Pfeiler, E.
86-001383
Pfitzer, D. W.
86-003301
Pflieger, W. L.
86-000519
Pfortmueller, K.
86-005004
Pfortmuller, F.
86-005003
Pfortmuller, K.
86-005003
Pfund, R. T.
86-005668
Phang, V. P. E.
86-001293
Philipp, D. P.
86-001384
86-001542
86-003306
86-004137
Philips, R. B.
86-001543
Phillips, J. O.
86-004002
Phillips, M. J.
86-002056
Phillips, R. B.
86-001041
86-004138
Phillips, R. C.
86-000773
Phillips, R. S.
86-001667
Phinney, G. J.
86-000775
Phinney, L. A.
86-005603
Phoel, W. C.
86-002732
Picaut, J.
86-001341
Piccinini, G.
86-003860
Picer, M.
86-000957
Pickering, A. D.
86-001492
86-004003
Piedrahita, R. H.
86-002037
Piegnouxdeville, J.
86-003772
Piekut, D. T.
86-000270
Pierce, B. A.
86-002192
Pierce, R. B.
86-001189
Pierce, R. H.
86-000965
Pierre, J.
86-002272
Pierson, J. M.
86-001732
Pietsch, T.
86-004796
Pietsch, T. W.
86-001779
86-002906
86-004881
Pigg, J.
86-002865
Pigott, G. M.
86-002141
86-002165
Pihl, N. J.
86-004469
Piilola, T.
86-000971
Piiper, J.
86-002733
Piironen, J.
86-000277

...CONTINUED...
Piironen, J.
86-000357
86-001447
Piken, H.
86-003600
Pilarczyk, A.
86-003451
86-003459
Pilgrim, R. L. C.
86-003032
Pilitt, P. A.
86-001844
Pillai, M. K. K.
86-003054
Pillai, P. P.
86-005669
Pimentel, R.
86-002632
Pincus, S.
86-003920
Pinkerton, A.
86-003601
Pinkney, A. E.
86-000950
Pinna, J.
86-000814
Pionetti, J. M.
86-003512
Piotrowska-Opuszynska, W.
86-002089
Piper, J.
86-002243
Piper, R. G.
86-003401
86-003405
Pipkin, J. L.
86-004096
Pirie, B. J. S.
86-003533
Pirini, M.
86-002487
Pisanti, F. A.
86-002291
Pisanty, S.
86-001127
Pitcher, T. J.
86-002661
86-002662
Pitkanen, A. K.
86-001613
Pitogo, C.
86-004982
Pittenger, G. G.
86-004204
Pivazyan, S. A.
86-002729
Planas, J.
86-001925
86-003907
Plank, J.
86-000077
Plantikow, A.
86-000358
Plantikow, H.
86-000358
Platford, R. F.
86-003639
Platonov, B. A.
86-003615
86-003616
Platt, E. J.
86-000404
Platts, W. S.
86-000832
86-001111

...CONTINUED...
Platts, W. S.
86-001245
86-003277
Platzer, U.
86-000428
86-001518
Plisetskaya, E.
86-000359
86-004005
Plisetskaya, E. M.
86-004004
Plosila, D. S.
86-002758
Ploskey, G. R.
86-001999
86-005422
86-005613
86-005619
Plumb, J. A.
86-000901
86-003033
Plumstead, E. E.
86-001733
Pocock, D.
86-001217
86-001218
Poddubnyy, A. G.
86-004206
Podosinnikov, A. Y.
86-003774
Podroschko, S.
86-001493
Podushka, S. B.
86-003775
Poe, P. H.
86-004695
Poe, T. P.
86-004769
Poe, W. E.
86-000083
Poffenberger, J. R.
86-001268
Pogacnik, T. M.
86-001097
Pogosyan, S. B.
86-000849
Pointing, P. J.
86-003644
Poirer, A.
86-005302
Poirier, S. H.
86-005303
Pokorny, J.
86-004125
Pola, N. B.
86-001212
Polenov, A. L.
86-000198
86-000300
Poletayev, V. A.
86-000564
Polikashin, L. V.
86-000006
Pollard, D. A.
86-001075
86-001112
86-004487
Pollard, J. E.
86-005404
Pollingher, U.
86-001668
Pollock, B. R.
86-001960
86-002011
86-005463

Pollock, H. G.
86-000359
86-004004
Polovina, J. J.
86-001113
86-001213
86-005670
Polprasert, C.
86-005527
Pomazanova, N. P.
86-003636
Pomerleau, C.
86-002881
Ponomarenko, I. Y.
86-004578
86-004579
Ponomarenko, V. P.
86-001589
Ponticelli, A.
86-003519
Ponyi, J. E.
86-001690
86-004601
Poole, B. C.
86-000855
Pope, D. H.
86-001865
86-005165
Pope, J. A.
86-002564
Pope, J. G.
86-005561
86-005723
Popek, W.
86-001292
Popodi, E. M.
86-001543
Popov, P.
86-004139
Popova, O. A.
86-000686
86-002792
Popova, T. M.
86-001291
Popovsky, J.
86-003674
Popper, A. N.
86-002634
86-004207
Porter, C.
86-000056
86-000057
86-001297
Porter, C. W.
86-002124
Portugal, A. A.
86-003386
Portugal, L. P. S.
86-004228
Post, G.
86-001364
Post, J. R.
86-004561
Postma, H.
86-000961
Poston, H. A.
86-000926
86-002157
86-003571
Potter, A. J.
86-002492
Potter, E. C. E.
86-003219
Potter, I. C.
86-000150

...CONTINUED...
Potter, I. C.
86-000520
86-001504
86-002458
86-002459
86-002814
86-002845
86-004724
86-004882
86-004883
Potthoff, T.
86-003776
86-004806
Pottinger, T. G.
86-000360
86-001492
Potts, G. W.
86-002793
Potts, W. T. W.
86-001494
Poulin, V. A.
86-005405
Poupin, J.
86-000407
Powell, J. F. F.
86-001916
Powell, M. J.
86-003246
Powell, R. C.
86-002493
Power, G.
86-000807
86-002304
86-003861
86-004245
Powers, D.
86-000293
Powers, D. A.
86-000236
86-000362
86-000450
86-002494
86-002591
86-002609
86-002682
86-003899
86-004006
Powers, J. E.
86-004286
86-005627
86-005671
Powers, K. R.
86-001304
86-001339
Powers, L. S.
86-002322
Powles, H.
86-005724
Powles, P. M.
86-000574
86-004393
Poy, M.
86-004996
Pozo, E.
86-004634
Prasad, M. S.
86-004041
Prasada Rao, K. S.
86-005304
Prat
86-005451
Prather, K. W.
86-000588
Pratt, H. L.
86-003849

Pratt, H. L., Jr.
86-004671
Pravotorov, B. I.
86-000551
Prazakova, M.
86-003460
Precigoux, G.
86-000210
Premawansa, S.
86-003866
Prentice, E. F.
86-001523
Prentice, J. A.
86-001170
86-002125
Prepas, E. E.
86-003650
Prescott, S. R.
86-002193
Present, T. M. C.
86-000803
86-002495
Price, D. J.
86-000744
Price, H. A.
86-003140
Price, N. C.
86-003124
Priede, I. G.
86-002195
Prieto, A.
86-005134
86-005151
Prikryl, I.
86-003096
86-003441
86-003572
Primeau, D.
86-003874
Primmett, D. R. N.
86-002496
Prince, J. D.
86-004882
86-004883
Prinsloo, J. F.
86-001733
86-002090
86-002091
86-002092
86-002096
Prokes, M.
86-001647
86-001704
Prokopets, E. N.
86-005520
Prokopowich, D.
86-001650
Propst, D. L.
86-004725
Prosser, C. L.
86-000291
86-004007
Prostak, K.
86-001385
Prouzet, P.
86-001593
Provine, W. C.
86-001170
Provorova, G. Y.
86-004580
Prut'ko, V. G.
86-002866
Przybyl, A.
86-003580
Pudyakov, Y. A.
86-005562
Puerner, J. A.
86-000982
Puffer, H. W.
86-003110
Pulliam, J. J.
86-005480
Pullin, R. S. V.
86-000465
Purcell, J. E.
86-001756
Puren, K.
86-001846
Pursiainen, M.
86-005416
Putintseva, V. A.
86-002497
86-005282
Putt, R. E.
86-001087
Putz, R. E.
86-005355
Puviani, A. C.
86-002486
Pyke, G. H.
86-000656
Pyle, S. W.
86-000866
86-000867
86-004997
Qadri, S. S. H.
86-000980
Qizhi, G.
86-003022
Quaglia, A.
86-003777
Quan Hum, W.
86-000649
Quensiere, J.
86-004307
Quentel, C.
86-002954
86-005302
Querat, B.
86-002498
Querellou, J.
86-003513
Quigley, M. A.
86-002202
Quignard, J.
86-002818
Quignard, J. P.
86-004366
Quillier, E.
86-000455
Quiniou, L.
86-004726
Quinn, B. D.
86-003030
Quinn, J. R.
86-001330
Quinn, T. J. II
86-001214
86-002734
Quinn, T. P.
86-001570
86-004189
86-004208
Quynh, N. X.
86-005223
Qvenild, T.
86-000967
Raa, J.
86-004967
Rab, P.
86-002603

...CONTINUED...
Rab, P.
86-004140
86-004141
86-004142
Rabalais, S. C.
86-005305
Rabanal, H. B.
86-003386
Rabin, D. J.
86-001620
Rabito, F. G., Jr.
86-002753
Racedo, J. A. B.
86-000737
Rach, J. J.
86-003168
Rachlin, J. W.
86-002611
86-002833
86-002838
Radant, R. D.
86-005356
Raddum, G. G.
86-005256
Radenen-Girard, D.
86-004626
Radle, E. R.
86-005506
Radojevic, M.
86-003067
Radonski, G. C.
86-001114
86-003322
Radtke, R. L.
86-004647
Radziej, J.
86-002023
Rae, G. H.
86-001495
Raffin, J. P
86-004010
Raffin, J. P.
86-004008
86-004009
Ragimov, D. B.
86-001648
86-002273
Rago, P. J.
86-001867
86-004770
Rahbari, S.
86-005022
Rahel, F. J.
86-001734
Rahkonen, R.
86-005484
Rahmani, A. R.
86-003778
Rahoomah, A.
86-002106
Raibaut, A.
86-001832
86-003027
86-005135
Raid, T.
86-004280
Railo, E.
86-002469
Raina, H. S.
86-000700
Rainio, K.
86-005204
Rajasilta, M.
86-001230
Raju, A.
86-000030
...CONTINUED...
Raju, A.
86-000055
Rajyalakshmi, T.
86-002126
Raleigh, R. F.
86-000552
86-000553
86-000554
Ralph, D. E.
86-002693
Ralph, K. M.
86-001405
86-005236
Ralph, R.
86-001953
Ralphs, J. R.
86-005043
Ralston, S.
86-002735
86-005670
86-005672
Ralston, S. L.
86-004467
Ram, R. N.
86-001014
86-002985
86-003141
86-003142
Ramage, P. I. N.
86-001495
Ramaiyan, V.
86-000675
Ramakrishna Rao, T.
86-004531
Ramana Rao, K. V.
86-005304
Ramazin, A. N.
86-000648
Ramirez, V. G.
86-001705
Ramos, I.
86-003613
Ramos, J.
86-003514
Ramsey, J. S.
86-001174
Ramsey, P. R.
86-001625
Ramusino, M. C.
86-001015
Ranck, C. L.
86-002610
Rand, J.
86-000104
Rand, T. G.
86-003034
Randall, D. J.
86-002310
86-002496
86-002949
Randall, J. E.
86-000774
86-002907
86-004727
86-004825
Randall, R. G.
86-004314
Randazzo, V.
86-000135
Rangeley, R. W.
86-000616
Rangneker, P. V.
86-003946
Rankin, E. T.
86-002663

...CONTINUED...
Rankin, E. T.
86-002669
Rankin, J. C.
86-000347
86-003837
Ransom, D. P.
86-005072
Ranson, M.
86-003874
Rantala, A.
86-005678
Rao, D. M. R.
86-003118
Rao, K. G.
86-003035
Rao, K. H.
86-005117
86-005118
Rao, K. V. S.
86-000738
Rao, M. C.
86-002499
Rapp, K. M.
86-004679
Rappaport, U.
86-002104
Raquel, P. F.
86-004728
Raschi, W.
86-003779
Rask, M.
86-000581
86-000589
86-004581
Ratkowsky, D. A.
86-005563
Ratledge, H. M.
86-003218
Ratty, F. J.
86-002616
Ravagnan, G.
86-003515
Rave, M.
86-003137
Raver, D. D.
86-002834
Ravindranath, K.
86-003035
Rawles, S. D.
86-000075
86-002158
Ray, D.
86-005673
Rayment, J. N.
86-000863
Razani, H.
86-003461
Razarihelisoa, M.
86-004281
Razavilar, V.
86-005022
Razmashkin, D. A.
86-004934
86-004935
Rea, A. M.
86-001785
Rea, H.
86-003419
Read, C. J.
86-002736
Reagan, R. E.
86-000555
Ream, T. J.
86-002639
Reash, R. J.
86-003143
Reavis, R. L., Jr.
86-005437
Rechkemmer, G.
86-002396
Reckahn, J. A.
86-000739
Recometa, R. D.
86-003462
86-003463
86-003573
86-004063
86-005308
Reddanna, P.
86-000200
Reddin, D. G.
86-004729
86-005516
Redding, J. M.
86-000350
86-002500
Reddy, A. K.
86-003429
Reddy, D. M.
86-002126
Reddy, S. R.
86-003993
86-005230
Reed, R. B.
86-004111
Reed, W. J.
86-001983
Rees, J. T.
86-002194
Rees, R. A.
86-000041
Reeves, W. C.
86-001195
Refstie, T.
86-000205
86-000395
Regier, H. A.
86-001053
Regina de Brito Eiras, D.
86-002369
Regleri, M.
86-003526
Rego, A. A.
86-003012
Rehbein, H.
86-004011
Rehnberg, B. C.
86-003144
Rehnberg, B. G.
86-002664
86-004209
Rehse, P. H.
86-003914
86-004012
Rehulka, J.
86-002986
Reich, A. R.
86-005205
Reid, D. M.
86-003288
Reid, P. C.
86-001883
Reid, S. B.
86-002665
Reif, W. E.
86-003780
Reifel, C. W.
86-000361
Reilly, S. B.
86-001660
Reimchen, T. E.
86-002274

Reimer, G.
86-001496
86-001683
Reinboth, R.
86-002501
Reiner, G. E.
86-005528
Reinertsen, H.
86-002209
Reinsnes, T. G.
86-002822
Reish, R. L.
86-001269
Reiter, M. A.
86-002210
Relyea, K.
86-002908
Rembold, H.
86-003545
Renaud, M. L.
86-002203
Renaud, R.
86-005095
Renberg, L.
86-005232
Rene, F.
86-003516
Renfro, D. J.
86-001162
86-001240
Rengaswamy, V. S.
86-000030
86-000055
Reno, P. W.
86-005065
86-005066
Renoncourt, L.
86-004638
Renyard, T. S.
86-001961
Reperant, J.
86-002272
Reschke, M.
86-000207
Resh, R. E.
86-002026
86-002048
Reshetnikov, Y. S.
86-000772
86-002729
86-002816
Retamales G., R.
86-000625
Retzer, M. E.
86-004884
Reutergardh, L.
86-003078
Reutter, J. M.
86-001115
Rey Carrasco, I.
86-003781
Reyes, X.
86-002994
Reynolds, J.
86-004441
Reynolds, J. B.
86-005406
Reznick, D.
86-004143
Rhodes, J.
86-001016
Rhodes, L.
86-001917
Rhodes, L. D.
86-000909

...CONTINUED...
Rhodes, L. D.
86-000955
Rhodes, R. C. III
86-002303
Rhude, L. A.
86-001991
Ribbink, A. J.
86-001678
86-004417
86-004885
Ribeiro, D. M.
86-002752
Ribeiro, S. P.
86-002743
Rice, D. A.
86-001835
Rice, D. L.
86-000775
Rice, J. A.
86-000804
86-000805
Rice, M. E.
86-002480
Rice, S. D.
86-003158
86-004054
Richard, D. I.
86-000002
Richards, A. H.
86-002704
Richards, C.
86-004582
Richards, F. P.
86-000776
Richards, L. J.
86-003275
86-004468
Richards, M. T.
86-001153
Richards, R. H.
86-001835
86-005027
Richards, W. J.
86-001780
86-003782
86-003808
86-004782
86-004806
86-004862
86-004886
86-004887
Richardson, C. L.
86-005725
Richardson, K.
86-002129
86-003675
86-004469
86-005733
Richardson, M. D.
86-002842
Richardson, N. L.
86-003036
Richardson, R.
86-001067
Richardson, S. L.
86-003744
Richardson, T.
86-000473
Richarson, R. T.
86-003340
Richkind, K. E.
86-003687
Richman, N. H.
86-004013
Richter, C. J. J.
86-003900

Richter, H.
86-000105
86-001332
86-002176
86-002177
86-003602
86-003604
86-003605
Richter, H. J.
86-000106
86-001331
86-003603
Richter, H. L.
86-000107
Rickard, W. H.
86-001998
Riddle, L. M.
86-002963
Riegel, J. A.
86-002502
Riehl, R.
86-003783
Rieman, B. E.
86-002694
Riera, P. M. C.
86-003464
Riget, F. F.
86-004210
Riggs, A.
86-002161
Righetti, G. M.
86-003385
Rigler, F. H.
86-003618
86-003627
Rijkers, G. T.
86-004014
Riley, J.
86-005153
Riley, R. G.
86-001037
Rimmer, M. A.
86-000154
Ringe, R. R.
86-003267
Ringler, N. H.
86-000689
86-002794
86-004483
Rinne, J. N.
86-001116
86-004126
Rinne, W.
86-004423
Rintamaki, P.
86-002955
Rio, J. P.
86-002272
Rioux, I. A.
86-003027
Rishi, K. K.
86-003438
Risley, R.
86-002207
Risotto, S. P.
86-000806
Rissanen, J.
86-000624
Ristori, M. T.
86-001497
Ritchie, D. E., Jr.
86-003784
Rivalta, V.
86-004097
Rivas, L. R.
86-004888
Rivas, R. J.
86-004015
Rivier, B.
86-005407
Rivier, J. E.
86-002420
Rivlin, K. A.
86-002611
86-002833
86-004144
Roadhouse, D.
86-002058
Roadhouse, S.
86-002058
Roald, S. O.
86-002290
Robbins, J. A.
86-002202
Robbins, S. D.
86-002366
86-002367
Roberge, M. M.
86-002736
Roberson, B. S.
86-000879
Roberson, K.
86-004419
Roberts-Goodwin, S. C.
86-002695
Roberts, B. L.
86-002285
86-004016
Roberts, D.
86-000666
Roberts, D. A.
86-005210
Roberts, D. E., Jr.
86-002145
Roberts, R. J.
86-000934
86-001835
86-002160
86-002970
86-004936
Roberts, T. R.
86-004889
Robertson, D. A.
86-000842
Robertson, J. D.
86-004017
Robertson, J. H. B.
86-001192
86-001193
Robertson, L.
86-002170
Robertson, S.
86-005535
Robillard, K. A.
86-005254
Robin, J.
86-001820
Robinette, H. R.
86-000026
86-005467
Robins, C. R.
86-000833
86-001781
Robinson, A. R.
86-002767
Robinson, B. J.
86-005726
Robinson, E. H.
86-000075
86-002135
86-002158

...CONTINUED...
Robinson, E. H.
86-002161
86-002162
Robinson, F. W.
86-003296
Robinson, J. W.
86-000962
86-000963
Robison, H. W.
86-000833
Roblin, C.
86-003490
86-004583
Roblin, J. H.
86-003547
Roch, M.
86-001918
86-003145
Rochefort-Johnson, S. M.
86-003146
Rockwell, S.
86-005735
Rode, M.
86-005604
Rodero, A.
86-002594
Rodgers, D. W.
86-001199
Rodgers, J. D.
86-001122
Rodgers, P. W.
86-003629
Rodino, E.
86-004100
Rodrigo, J. X.
86-000030
86-000639
Rodriguez, A.
86-005650
Rodriguez, R. B.
86-003482
Rodriquez, A.
86-004730
Roelofs, T. D.
86-005605
Roff, J. C.
86-003661
86-004747
Rogachev, A. E.
86-003616
Rogano, M. S.
86-002468
Rogatnykh, A. A.
86-000837
Rogatnykh, A. Y.
86-002701
Rogers, A.
86-005408
Rogers, B. D.
86-001190
Rogers, D. E.
86-004695
Rogers, D. W.
86-004367
Rogers, P. H.
86-002634
Rogers, R. A.
86-001955
Rogers, S. C.
86-000649
Rogers, W.
86-004429
Rogers, W. A.
86-003033
Rogillio, H.
86-002769

...CONTINUED...
Rogillio, H.
86-003264
Rogulska, A.
86-002971
86-002973
Rohde, K.
86-005136
Rohovec, J. S.
86-002957
86-004949
86-004966
86-004990
Rohrer, R. L.
86-005438
Roithmayr, C. M.
86-005517
Rojas de Mendiola, B.
86-001695
Rojas J., O.
86-000623
Romaire, R. P.
86-002093
Romand, R.
86-002790
86-004890
Romanenko, V. D.
86-003825
86-004018
Romani, R.
86-001577
Romano, A.
86-002291
Romanov, A. A.
86-002094
Rombough, P. J.
86-001017
Rombout, J. H. W. M.
86-003817
Romer, G. S.
86-001684
Romero, A.
86-000501
Romero, R. C.
86-001847
86-003037
Ronan, M. C.
86-002503
Rongde, C.
86-004101
Rooks, J. R.
86-002686
Rooney, D. J.
86-002666
Ropson, I.
86-002609
Ropson, I. J.
86-000362
Rosa, R. S.
86-000834
Rosch, R.
86-000074
86-002057
86-003544
86-003574
86-004154
Rose, G.
86-003915
86-004019
Rose, G. A.
86-001571
86-004412
Rosegger, T.
86-001735
Rosello, O. O.
86-003785

Rosemark, R.
86-002979
86-002991
Rosen, R. A.
86-001054
Rosenberg, A. A.
86-004368
Rosenberg, M.
86-000132
Rosenblatt, R. H.
86-002612
86-002909
86-004674
86-004891
Rosenblum, P. M.
86-000363
86-000364
Rosenquist, G. L.
86-000422
Rosenqvist, G.
86-002630
Roshchin, E. A.
86-002696
Rosman, I.
86-005518
Ross, L. G.
86-002056
Ross, M. A.
86-001988
Ross, M. J.
86-004777
Ross, M. R.
86-004648
Ross, S. T.
86-002795
86-004771
Rossberg, K. S.
86-002127
Rosseland, R. O.
86-005317
Rossi, D.
86-001954
Rossi, R.
86-004250
Rosso, A.
86-005057
Rothchild, B. J.
86-005564
Rothlisberg, P. C.
86-001594
Rothwell, G. N.
86-002118
86-002119
Rottiers, D. V.
86-003560
Roubal, F. R.
86-002504
86-005137
86-005138
Roubal, W. T.
86-005186
Roughgarden, J. D.
86-004304
Rourke, A. W.
86-003038
Rouse, J. B.
86-004004
Roush, R. T.
86-005330
Rousset, V.
86-001832
86-005135
Roux, A.
86-004723
Rovainen, C. M.
86-000365
Rowchai, S.
86-004649
Rowes, K. D.
86-001617
Rowland, W. J.
86-002667
Rowley, A. F.
86-002408
Roy, R. J. J.
86-004052
Roy, S.
86-002095
Roy, S. K.
86-003378
Royce, W. F.
86-003341
Rozas, L. P.
86-005622
Rozdzial, M. M.
86-003786
Ruban, G. I.
86-001863
Rubcov, V.
86-001363
86-005018
Rubenstein, D. I.
86-000597
Rubio R., E. A.
86-004731
Rubio, R.
86-002364
Rubsamen, S.
86-004998
Ruby, S. M.
86-005294
86-005306
Rudenko, V. I.
86-001300
86-003945
Rudnev, V. A.
86-004431
Rudnicki, R. A.
86-000997
Ruehle, T. E.
86-002464
Ruggieri, G. D.
86-001829
Ruhle, C.
86-003787
Ruifang, W.
86-001544
Ruiz-Amil, M.
86-002372
Rulifson, R. A.
86-005384
Rumble, M. A.
86-005400
Rumsey, G.
86-001035
86-002570
Rundberg, E. G. S.
86-003059
Runn, P.
86-001453
86-001909
86-001910
86-003100
Ruotsila, L.
86-005204
Ruple, D.
86-003788
Ruppert, D.
86-001269
86-005565
Rusaoueninnocent, M.
86-004020

Russ, G.
86-000777
Russell, B. C.
86-004304
86-004790
Russell, D.
86-000968
Russell, D. F.
86-002505
Russell, I. C.
86-003219
Russell, R. G. G.
86-003912
Russell, T. R.
86-003433
86-004282
86-005342
Russo, A. R.
86-005206
Russo, J. L.
86-000521
86-004806
Russo, R. C.
86-003159
Russock, H. I.
86-002668
Rustad, S.
86-003637
Rutka, J.
86-005674
Rutledge, H. M.
86-002059
Ruttanaphani, R.
86-002998
Ryabova, G. D.
86-002608
Ryan, P. A.
86-001685
Ryan, P. M.
86-001621
Ryka, B.
86-002521
86-002526
Ryman, N.
86-000460
86-001533
Ryon, M. G.
86-001595
Ryu, B. S.
86-003517
Saad-Fares, A.
86-003039
Saari, M. J.
86-002058
Saarikoski, J.
86-003147
Sabath, B.
86-002178
Sada, D. W.
86-000792
86-000811
86-001059
Sadler, K.
86-004021
Sado, T.
86-001454
Saeed, D. W.
86-004413
Saeed, M. O.
86-004584
Saetersdal
86-005675
Safer, A. M. A.
86-001386
Safonov, N. V.
86-004222
Safronov, S. G.
86-002688
Sagar, P. M.
86-004772
Sage, R. D.
86-004145
Sagen, T.
86-005256
Sagidullayev, N. S.
86-002796
Saha, S. K.
86-000033
Sahara, S.
86-003131
Sahrul, M.
86-005172
Saidel, W. M.
86-002634
Saiki, M. K.
86-001596
86-003080
Sainsbury, K. J.
86-004585
Saint-Paul, U.
86-004283
Saito, K.
86-003940
Saito, T.
86-000366
86-000367
Sakaguchi, G.
86-004948
Sakaguchi, H.
86-001498
Sakaguchi, M.
86-004022
Sakaguchi, S.
86-003000
Sakai, D. K.
86-000876
86-002956
86-002958
86-004999
86-005000
Sakai, H. M.
86-001387
Sakai, I.
86-005676
Sakai, K.
86-000170
86-003456
Sakai, M.
86-002957
86-004945
86-004971
86-005001
Sakai, T.
86-001498
86-004023
Sakaizumi, M.
86-002613
Sakaki, N.
86-005409
Sakamoto, M.
86-003554
Sakamoto, S.
86-000432
Sakamoto, W.
86-004732
Sakanari, J.
86-001848
86-002934
86-005123
86-005124
Sakanari, J. A.
86-003040

Sakata, K.
86-001499
Sako, T.
86-003932
Sakovich, I. G.
86-002697
Sakshaug, E.
86-003665
Sala, R.
86-005245
Salati, F.
86-000877
86-005002
Saldanha, L.
86-001590
Sale, P. F.
86-001622
86-004369
Salim, R.
86-000962
86-000963
Salman, N. A.
86-002190
86-002289
Salmela, R.
86-000835
Salo, J.
86-001230
Salojarvi, K.
86-005416
86-005483
86-005484
Salter, P.
86-005683
Saltveit, S. J.
86-004490
Salvatori, R.
86-003518
86-003519
Salwasser, H.
86-001062
Samalecos, C. P.
86-005067
Sambasiva Rao, K. R. S.
86-005304
Samis, W.
86-003246
Samloff, I. M.
86-000361
Samollow, P. B.
86-000463
Samples, K. C.
86-001117
Sampson, D. R. T.
86-003591
Samson, F. B.
86-001062
Samuel, D. E.
86-003058
Samuel, M.
86-000054
86-002689
86-002728
86-002835
86-003342
Samuelson, C. E.
86-005410
Sanchez-Gil, P.
86-002742
Sanchez, P. G.
86-003017
Sanchez, T.
86-000042
86-003478
Sand, O.
86-002506

...CONTINUED...
Sand, O.
86-004024
Sanders-Loehr, J.
86-002939
Sanders, H. O.
86-001902
Sanders, J. E.
86-004947
Sanders, J. G.
86-003654
86-005307
Sanders, R. M., Jr.
86-001078
86-001118
Sanderson, S. L.
86-000690
86-001376
86-004574
Sandknop, E. M.
86-003759
86-003789
86-005716
Sandlund, O. T.
86-004277
86-004462
Sands, D. D.
86-002179
86-003465
Saneyoshi, M.
86-000898
86-005051
Sano, M.
86-004892
86-005063
Sano, N.
86-003364
86-003369
Sano, T
86-005068
Sano, T.
86-005021
86-005055
86-005063
86-005064
Santa Maria, I.
86-005207
Santangelo, G.
86-003974
Santiago, C. B.
86-002507
Santiago, L. P.
86-005308
Santulli, A.
86-001309
86-004025
Sanz, A.
86-001286
86-001500
Saoud, M. F.
86-003013
Saracino, C.
86-003403
Saraiva, A.
86-004956
Sargeant, R. C.
86-000600
Sargent, J. R.
86-000385
86-002368
86-003533
86-003877
86-003919
Sargent, P. A.
86-001531
86-002288

...CONTINUED...
Sargent, P. A.
86-002508
Sargent, R. C.
86-000484
Sarig, S.
86-001282
86-002104
Saroglia, M. G.
86-000914
Sartoris, J. J.
86-002215
Sarvala, J.
86-001230
Sasaki, H.
86-002293
86-005064
Sasaki, K.
86-004058
Sasaki, N.
86-004109
Sasaki, T.
86-001185
Sassaman, C.
86-004384
Satchell, G. H.
86-002563
86-004026
Sathyanarayanappa, S. N.
86-005519
Sathyanesan, A. G.
86-001014
86-002985
86-003133
86-003141
86-003142
Sato, H.
86-001637
Sato, K.
86-000434
86-001973
86-004027
Sato, M.
86-000434
86-004027
Sato, O.
86-001119
Sato, R.
86-004149
Sato, T.
86-001931
Satoh, S.
86-000081
86-000082
86-002601
Sauer, D. C.
86-000368
86-000369
Sauer, G. R.
86-001018
Saul, B. M.
86-000691
86-003220
Saul, G. E.
86-001151
86-003212
86-003215
86-003238
Saunders, R. L.
86-000326
86-002444
Sautin, Y. Y.
86-004028
Savage, J. L.
86-003343
Savel'eva, E. A.
86-001290
Savino, J. F.
86-000692
Savits, J.
86-000676
Savitz, J.
86-000502
Savoy, T.
86-005544
Savoy, T. F.
86-000793
86-001255
Savvatimiskij, P. M.
86-004470
Savvatimskiy, P. I.
86-002698
Sawyer, D. B.
86-000370
Sawyer, P. L.
86-001019
Sawyer, T. K.
86-002975
Sawyko, P. M.
86-000964
Saxena, A. B.
86-003149
Saxena, P. K.
86-005309
Saxon, E. C.
86-001819
Sayer, M. D. J.
86-002343
Sayes, A.
86-003285
Sazima, I.
86-004586
Sazonov, U. I.
86-002910
Sazonov, Y. I.
86-001782
86-002911
Sbikin, Y. N.
86-002867
Scarano, G.
86-000914
Scarnecchia, D. L.
86-004370
Scavia, D.
86-005578
Schadt, T. H.
86-004392
Schaefer, S. A.
86-001783
Schaeffer, J. S.
86-002797
86-004371
Schaeffer, K. M.
86-001572
Schaffner, F. C.
86-004773
Schafran, G. C.
86-000119
Schalkoff, M. E.
86-000371
Schauer, P. S.
86-000076
Scheel, R. H.
86-003140
Scheerer, P. D.
86-000590
Scheid, P.
86-002733
Scheide, J. I.
86-002323
86-002578
Scheidt, K.
86-001388

Schellart, N. A. M.
86-001481
Schelske, C. L.
86-003638
Schenborn, D. A.
86-001063
Scherer, E.
86-005310
Schiavone, A., Jr.
86-002737
Schiel, D. R.
86-000757
Schifflers, E.
86-004420
Schild, D.
86-002509
Schill, D. J.
86-005606
Schindler, D. W.
86-003633
Schindler, J. F.
86-002275
86-004029
Schirf, V. R.
86-003868
Schirmer, M.
86-000949
Schlagenhaft, T. W.
86-000503
Schlaghecke, R.
86-000374
Schlatter, E.
86-003905
Schloesser, D. W.
86-004769
Schlotfeldt, H.
86-005003
86-005004
Schmale, M. C.
86-001849
Schmehl, M. K. L.
86-002510
Schmidt-Focke, E.
86-003606
Schmidt, K. A.
86-005727
Schmidt, M. E.
86-005456
86-005465
Schmidt, P. S.
86-001516
Schmidt, T. W.
86-002798
Schmied, R. L.
86-003344
Schmitt, C. G.
86-000535
Schmitt, C. J.
86-001596
86-003080
Schmitt, P. D.
86-004587
Schmitt, R. J.
86-000673
86-004522
Schmittou, H. R.
86-002033
86-002759
86-003386
Schneider, C. P.
86-004363
86-005457
Schneidervin, R. W.
86-002799
86-004588
Schnell, M. S.
86-005734
Schnell, S. M.
86-005734
Schnick, R. A.
86-002038
86-005311
Schnoor, J. L.
86-001868
Schnute, J.
86-005108
86-005312
86-005566
Schnute, J. T.
86-003275
Schoch, W. F.
86-001964
Schoelermann, B.
86-002430
86-002572
Schoenherr, A. A.
86-004774
Schofield, C. L.
86-005155
Schom, C. B.
86-002039
86-005313
Schoonbee, H. J.
86-000193
86-000606
86-001733
86-002090
86-002091
86-002092
86-002096
Schoonen, W. G. E. J.
86-000372
86-002511
Schrag, J. D.
86-001510
Schramm, H. L., Jr.
86-001055
86-001686
Schrap, S. M.
86-005208
Schreck, C. B.
86-000350
86-000351
86-002300
86-002373
86-003144
86-003996
86-004209
86-005327
Schreiber, R. K.
86-001867
Schreibman, M. P.
86-000373
86-004030
Schroeder, R. E.
86-004574
Schuetz, H.
86-002430
86-002572
Schuler, E.
86-003074
Schuler, F. M.
86-003325
Schulte, E.
86-003783
Schultz, C. L.
86-000902
86-002959
86-005005
Schultz, D. L.
86-004284

Schultz, M. E.
86-005314
Schultz, R. J.
86-000449
86-005314
Schultze, D. L.
86-003345
Schulz, H.
86-002512
86-003575
Schulz, R.
86-000374
86-004031
Schumacher, J. D.
86-004756
Schurr, K.
86-001877
Schwalme, K.
86-000375
86-000376
86-001200
86-001501
Schwan, T. G.
86-004032
Schwanck, E.
86-004211
Schwantes, A. R.
86-002550
Schwartz, J. P.
86-003148
Schwarz, F. J.
86-000066
86-000077
86-003558
Schwarzer, R.
86-001489
Schweigert, J. F.
86-001215
Schweitzer, J.
86-002513
Schwinden, C. J.
86-005423
Scott, A. P.
86-000387
Scott, D.
86-005485
Scott, E. M.
86-000377
Scott, G. K.
86-004146
Scott, J. B.
86-005411
Scott, J. S.
86-000856
86-000927
86-001850
86-001851
Scott, M. E.
86-000928
86-005139
Scott, P.
86-003041
Scott, T. M.
86-005101
Scott, W. B.
86-001781
Scrimgeour, G. J.
86-004589
Scrivener, J. C.
86-005390
Scruton, D. A.
86-003655
86-005162
Scudder, T.
86-005607
Scully, R. P., Jr.
86-001502
Scura, E. D.
86-002087
Sealing, C.
86-001175
Seaman, W., Jr.
86-001056
Seaton, D. D.
86-000795
Sebakh, L. K.
86-003630
Sebert, P.
86-000378
86-002320
86-002514
Sechin, Y. T.
86-003276
Sechnick, C. W.
86-002669
Secombes, C. J.
86-000929
86-002195
Secor, D. H.
86-000740
86-000741
Sedberry, G. R.
86-000693
Sedell, J. R.
86-004775
86-005378
86-005608
Sedlar, J.
86-004120
Seeb, J. E.
86-005464
Seeb, L. W.
86-004147
86-005464
Seehorn, M. E.
86-005452
Seelbach, P. W.
86-001191
Seeley, P. N.
86-001958
Seeliger, U.
86-005181
Seely, E. H.
86-000969
Seelye, J. G.
86-001753
Seghers, B. H.
86-004590
Segner, H.
86-003576
Seguier, J.
86-005407
Seguin, R.
86-003370
Sehgal, R.
86-003149
Seidel, J.
86-003074
Seidler, J. J.
86-000965
Seigaku, M. H.
86-004574
Seigel, J. A.
86-000778
86-004733
Seigneurie, E.
86-001932
Seikai, T.
86-000171
86-004650

Seip, H. M.
86-003637
Seki, M. P.
86-004591
86-004592
86-005648
Seki, N.
86-000432
Selbrink, B. B.
86-000108
Selens, M.
86-002623
Selezneva, A. A.
86-000836
Sellers, C. M., Jr.
86-001866
Selman, K.
86-002515
86-004033
Selvaraj, G. S. D.
86-000379
Selzer, M. E.
86-002330
Semenchenko, N. N.
86-004430
Semenov, A. I.
86-004734
Semmens, K. J.
86-003466
Semple, G. P.
86-001389
Sen, P. R.
86-000043
Senn, D. G.
86-003790
Seo, K. K.
86-002036
Serangeli, C.
86-004285
Serebrov, L. I.
86-005526
Serreze, D. V.
86-005065
Seshappa, G.
86-000742
Seth, P. K.
86-005316
Setser, M. D.
86-000878
Seubert, A.
86-003074
Seubert, S.
86-003074
Sever, D. M.
86-002868
Severin, S. O.
86-002614
Sevyan, T. K.
86-002936
Sewell, S. A.
86-004651
Sezaki, K.
86-004058
Shacha, D. N.
86-000159
Shackley, P. E.
86-002882
Shackley, S. E.
86-004618
Shafland P. L.
86-003261
Shafland, P. L.
86-000004
86-000044
86-003247
Shah, K. L.
86-005006
Shakaryan, G. A.
86-002936
Shakhmatova, Y. I.
86-004034
Shaklee, J. B.
86-000463
Shakuntala, K.
86-003993
Shandikov, G. A.
86-002276
Shandruk, R. N.
86-003943
Shang, Y. C.
86-002097
Shanker, R.
86-005316
Shapiro, D. Y.
86-004212
86-004213
Shapovalova, G. I.
86-004937
Sharangi, N.
86-003384
Sharma, A.
86-005495
Sharma, B. K.
86-000045
86-003387
Sharma, K. P.
86-000779
Sharma, S. C.
86-002231
Sharp, J. R.
86-001020
Shatilina, T. V.
86-000632
Shatunovskiy, M. I.
86-000539
86-000772
86-004580
Shaub, Y. B.
86-005520
Shaw, M.
86-003635
Shaykin, A. V.
86-004580
Shazili, N. A. M.
86-001919
Shcherbachev, Y. N.
86-000780
86-001782
Shcherbina, T. V.
86-004080
Shchetinnikov, A. S.
86-000694
Sheaffer, W. A.
86-004471
Shear, H.
86-003634
Shears, M. A.
86-001021
86-001869
Shebil, D.
86-000938
Sheehy, D. J.
86-001120
86-003198
Sheenko, P. S.
86-005140
Shekhodanov, K. L.
86-001757
86-001759
Shekk, P. V.
86-003945

Sheldon, J. G.
86-001121
Sheldon, M. R.
86-001657
Sheldon, R. G.
86-005474
Shell, B. D.
86-003081
Shell, E. W.
86-002033
Shellman, A. D.
86-003445
Shelton, J. L.
86-000116
Shelton, P. A.
86-001758
86-005357
Shelton, W. L.
86-003248
86-003466
Shemeikka, P.
86-005590
Shenker, J. M.
86-001736
86-004652
Shenuda, S.
86-000783
Shepard, B. B.
86-005209
Shepard, J. G.
86-005561
Shepard, M. F.
86-004270
Shepherd, B. G.
86-004776
Shepherd, C. J.
86-004936
Sherburne, S. W.
86-005066
Sheren, S. B.
86-004035
Sheridan, M.
86-001842
Sheridan, M. A.
86-000380
86-004036
Sheridan, P. F.
86-004286
Sheridan, W. L.
86-005412
Sherman, B.
86-002565
Shershnev, A. P.
86-004431
Sherstyuk, V. V.
86-003958
Sherwood, N. M.
86-000381
Sheshappa, D. S.
86-005519
Shetty, J.
86-000292
Shevtsov, S. E.
86-005521
Shiba, T.
86-001454
Shibata, Y.
86-001370
Shicong, W.
86-001439
Shields, C. A.
86-004037
Shields, J. D.
86-000930
Shier, D. N.
86-002302
Shigekawa, K. J.
86-002068
Shigen, A. A.
86-003042
Shilin, N. I.
86-000772
Shilo, M.
86-003389
Shima, A.
86-000382
86-000461
Shima, N.
86-005064
Shimada, Y.
86-000382
Shimamura, T.
86-000505
86-000650
Shimazaki, K.
86-002691
86-003747
Shimeno, S.
86-001321
86-001507
Shimizu, A.
86-000383
Shimizu, I.
86-004038
Shimizu, M.
86-000592
86-001449
86-003963
Shimoda, S. K.
86-000257
Shimomura, O.
86-002516
Shinriki, Y.
86-003408
Shiobara, Y.
86-002738
Shiomitsu, T.
86-005062
Shiota, P. M.
86-005439
86-005670
Shiozawa, D. K.
86-004129
Shirahata, K.
86-000393
Shirai, L. K.
86-005275
Shirasu, Y.
86-001448
Shires, S. W.
86-003081
Shirshov, V. Y.
86-004934
Shisler, J. K.
86-003201
Shivers, R. R.
86-002288
Shivokene, Y. S.
86-002517
Shlibanov, V. I.
86-000780
Shlyakhov, V. A.
86-004593
Shlyakhova, V. A.
86-005630
Shlyakov, V. A.
86-004318
Shmakov, N. F.
86-002159
Shomura, R. S.
86-001113

Shopsis, C.
86-001874
Shorrocks, B.
86-004893
Shortreed, K. S.
86-003666
86-005574
Shostak, A. W.
86-001852
86-005141
Shostak, S.
86-003874
Shotton, R.
86-005728
Shotts, E. B.
86-000864
86-001807
86-004970
86-005007
86-005015
Shotts, E. B., Jr.
86-000872
Shoulin, Z.
86-005191
Shrivastava, S.
86-000384
Shubat, P. J.
86-001920
86-005303
Shukla, J. P.
86-003995
Shukla, L.
86-001022
86-001023
Shul'man, G. E.
86-004082
Shulman, M. J.
86-000621
Shuntov, V. P.
86-000591
Shunyou, H.
86-001784
Shurben, D.
86-001029
86-005159
Shuter, B. J.
86-003862
Shuttleworth, T. J.
86-000232
86-004039
86-005213
Shuvayev, Y. D.
86-003265
Shyamasundari, K.
86-005117
Shyamasundari, K. A.
86-005118
Sibbald, G. F.
86-004678
Sibbald, R. R.
86-002130
86-002131
Sibbing, F. A.
86-002277
86-004594
Sibunka, J. D.
86-002699
Sideleva, V. G.
86-002389
Sidell, B. C.
86-004040
Sidell, B. D.
86-001452
86-002472
Siekert, R. E.
86-001122
Sierra, L. M.
86-002792
Sieswerda, P. L.
86-000109
Siezen, R. J.
86-003043
Sigel, M. M.
86-000260
Sigismondi, L. A.
86-002300
86-002518
Sigler, W. F.
86-004287
Sikkel, P. C.
86-004214
Sikora, H.
86-005248
Silva, E. I. L.
86-004472
Silva, J. P.
86-002519
Silva, M.
86-001157
86-002519
Silva, M. P.
86-002462
Silva, P.
86-001503
86-002362
86-002519
86-002523
Silva, P., Jr.
86-001503
86-002519
Sim, B.
86-001198
Sim, D. S.
86-005142
Sim, T. C.
86-004686
Simco, B. A.
86-000230
86-003467
Simek, K.
86-000046
Simmons, L. G.
86-000110
Simmons, R. C.
86-000966
Simola, O.
86-005576
Simon, R. D.
86-002040
Simon, T. P.
86-003791
Simonin, H. A.
86-005243
Simonneaux, V.
86-003925
86-003938
Simonsen, V.
86-001545
Simpson, C. M. F.
86-000385
Simpson, K. L.
86-000076
86-005231
Simpson, T. H.
86-001460
Sims, S. E.
86-001984
Sinclair, M.
86-004464
Sindermann, C. J.
86-000857

...CONTINUED...
Sindermann, C. J.
86-003249
Singer, F.
86-001548
Singer, M. M.
86-001687
Singer, R.
86-005210
Singh, B. R.
86-003811
86-004041
Singh, R. A.
86-002520
Singh, R. P.
86-000386
Singh, S. N.
86-002520
Singh, T. P.
86-001930
86-003119
Singhal, R. N.
86-004938
Siniff, D. B.
86-004777
Sire, J.
86-002279
Sire, J. Y.
86-003792
86-004042
Sire, M. F.
86-003897
Sirikantayakul, S.
86-005143
Sis, R. F.
86-002161
Sisk, R.
86-003302
Sissenwine, M. P.
86-003317
86-005667
Sitha Rami Reddi, P.
86-000176
Siwicki, A.
86-002023
86-002521
86-002526
86-005278
Sizemore, R. C.
86-003856
Sjobeck, M.
86-001904
Sjoblom, V.
86-005436
86-005677
86-005678
86-005679
Sjorstrom, P.
86-002772
Skare, J. U.
86-005161
Skarphedinsson, O.
86-000387
Skates, D. L.
86-004436
86-004710
Skelton, P. H.
86-003793
86-004735
86-004894
Skinner, Q. D.
86-001122
Skinner, W. F.
86-003082
Skobe, Z.
86-001385
Skogheim, O. K.
86-000967
86-005317
Skora, S.
86-002098
86-002841
Skurdal, J.
86-000967
86-004215
86-004452
Skurikhina, L. A.
86-004895
Skurla, J.
86-003211
Slanke, V. P.
86-000437
Slatick, E.
86-001201
Slechta, V.
86-002620
Slechtova, V.
86-002619
86-002620
86-002621
86-004125
Sletten, T.
86-005232
Slinger, S. J.
86-001004
86-001005
86-002147
86-002152
Slivka, A. P.
86-001759
Sloan, L.
86-003346
Sloan, R. J.
86-005187
Sloane, R. D.
86-004631
86-004667
Sloley, B. D.
86-001905
86-003150
Slonova, S. A.
86-004480
Sluczanowski, P. R.
86-005567
Sly, P. G.
86-001231
Slyusar, V. I.
86-003623
86-005353
Smale, M. J.
86-000695
86-002800
86-004595
Small, J. W., Jr.
86-000002
Smalley, S. R.
86-001504
86-002459
Smatresk, N. J.
86-000215
86-000388
Smiley, D.
86-003625
Smiley, K.
86-004316
86-005495
Smit-van Dijk, W.
86-000234
Smith-Vaniz, W. F.
86-003744
86-004896

Smith, C. E.
86-002053
86-003159
Smith, C. L.
86-003221
86-005358
Smith, D. A.
86-000504
Smith, D. G.
86-000389
86-002402
86-004897
Smith, D. H.
86-005259
Smith, D. W.
86-000663
86-001340
Smith, G.
86-002302
Smith, G. B.
86-002610
86-004288
Smith, G. R.
86-004898
Smith, G. W.
86-004258
Smith, H. M.
86-001938
Smith, I. R.
86-005661
Smith, J. D.
86-004043
86-005144
Smith, J. J.
86-002801
Smith, J. L. B.
86-004733
Smith, J. R. F.
86-004216
Smith, J. W.
86-000696
Smith, K. L.
86-004691
Smith, L.
86-001188
Smith, L. M.
86-003107
Smith, L. S.
86-000436
Smith, M.
86-004441
Smith, M. A.
86-001122
Smith, M. A. K.
86-000328
Smith, M. L.
86-001785
86-005359
Smith, P. E.
86-001623
86-001627
Smith, P. J.
86-000842
86-001546
86-002615
Smith, R. E.
86-002280
Smith, R. J.
86-001123
Smith, R. J. F.
86-001573
86-004043
86-004044
Smith, R. L.
86-004045
Smith, R. M.
86-001865
Smith, R. W.
86-001089
Smith, S. H.
86-000390
Smith, T. I. J.
86-001057
86-002099
86-002128
Smith, T. M.
86-003151
Smith, W. G.
86-003317
Smitherman, R. O.
86-000031
86-002581
86-004111
86-004112
Smoley, A. I.
86-002729
Snarski, D.
86-005430
Snedaker, S. C.
86-005211
Snekvik, E.
86-005222
Snelgrove, P. V. R.
86-000781
Snellgrove, R.
86-000230
Snelson, F. F., Jr.
86-002280
86-002522
Snider, B.
86-001124
Snider, W. M.
86-005453
Snieszko, S. F.
86-002960
Snyder, D. E.
86-003756
86-003794
Snyder, L. E.
86-000743
So, Y. P.
86-000391
86-002545
86-005306
Sobharani, P.
86-000200
Soboleva, N. A.
86-005722
Sobrinho, A. C.
86-003453
Socci, R.
86-000996
Societa Itticoltura Meridionale
86-003520
Soderberg, R. W.
86-002060
Soeda, H.
86-000505
86-000650
86-001558
Soh, T.
86-005654
86-005680
Sohns, L. E.
86-001103
Soileau, D. M.
86-001058
Soin, S. G.
86-002041
86-003795

Sokolova, A. V.
86-001288
86-001395
Sokolowska, M.
86-000392
86-001292
86-001305
86-002427
Solano, O. D.
86-000813
Solar, I. I.
86-002050
Solbakken, J. E.
86-001027
86-001907
Solbe, J. F. de L. G.
86-003152
Solbe, J. F. del G.
86-001029
Solbe, J. F. L. G.
86-005159
Solemdal, P.
86-005500
Soliman, A. K.
86-002160
Solntseva, G. N.
86-005157
Solomatina, V. D.
86-003825
Solomon, D. J.
86-003303
Solomon, G.
86-000592
86-002523
Solomon, R.
86-002367
Solomon, R. J.
86-002523
Solonsky, A. C.
86-001125
86-004574
Soltz, D.
86-004249
Soltz, D. L.
86-001473
86-004582
Song, Y. C.
86-002616
Sonnichsen, S. K.
86-000556
Sonski, J. S.
86-002061
Sonstegard, R. A.
86-000801
86-001755
86-001883
86-003821
Sonu, C. J.
86-001126
86-001136
Soofiani, N. M.
86-004258
Sorden, C. T.
86-004574
86-004596
Sorensen, P. G.
86-002524
Sorensen, P. W.
86-002770
Sorg, C.
86-001950
Sorg, C. F.
86-005440
86-005441
Sorgeloos, P.
86-000080
Sorimachi, M.
86-005048
86-005069
Sorokin, M. A.
86-000506
Sorvachev, K. F.
86-005298
Sosa, M.
86-005681
Soto, D.
86-004295
Soundararajan, R.
86-000639
Sousa, J. C.
86-004956
Souter, B. W.
86-002997
South, G. R.
86-000615
Southard, J. N.
86-004046
Southgate, P.
86-005107
Sowards, C. L.
86-005212
Sowden, T. K.
86-000807
Sower, S. A.
86-000078
Spangler, G. R.
86-002706
Spanier, E.
86-001127
Spannhof, L.
86-000445
Sparrowe, R. D.
86-005413
Spataru, P.
86-001688
Speaker, R. W.
86-004775
Speas, C. C.
86-004432
Speas, J.
86-000899
Specker, J. L.
86-000393
Spehar, R. L.
86-005315
Spiegel, R. C.
86-005254
Spieler, R.
86-000394
Spieler, R. E.
86-002042
Spieser, O. H.
86-005237
Spillett, P. B.
86-003568
86-005414
Spiropulo, Z. I.
86-000551
Sprague, J. B.
86-001878
86-001915
86-005274
Springate, J. R. C.
86-003577
Springer, A. D.
86-000172
Sproul, J. T.
86-001117
Sprules, W. G.
86-003662
86-003667

...CONTINUED...
Sprules, W. G.
86-004540
Spry, D. J.
86-001024
Squire, J. L., Jr.
86-003347
86-004736
Srinath, M.
86-005669
Srinivasa Rao, K.
86-005145
Sriramachandra Murty, V.
86-000557
Srivastav, S. P.
86-001505
Srivastava, A. K.
86-000386
Srivastava, D. K.
86-003153
St-Pierre, G.
86-002775
Stabell, O. B.
86-000395
Stabler, F.
86-001092
Stables, J. N.
86-003044
86-005146
86-005147
Stables, T. B.
86-005290
Stacey, N. E.
86-002489
86-002490
Stafford, C. L.
86-003154
Stagg, R. M.
86-005213
Stahl-Johnson, K. L.
86-003796
Stahl, G.
86-000460
86-001533
Stainton, M. P.
86-002214
86-003633
Stanley, B. V.
86-004433
Stanley, W. B.
86-001096
Stanton, G. E.
86-005582
Stark, J. R.
86-002329
86-003855
Starkie, A.
86-003256
Starmach, J.
86-002869
Starnes, L. B.
86-000558
Starnes, W. C.
86-000558
86-004818
Stasiak, R. H.
86-002870
States, J. C.
86-004103
Stauffer, G. D.
86-001597
Stauffer, J. R., Jr.
86-001574
86-002595
86-002912
Stave, J. W.
86-000879
Stawikowski, R
86-000111
Stawikowski, R.
86-002180
Stayton, R. L.
86-003192
Stedman, R. M.
86-001737
Steel, R.
86-000559
Steel, W. J.
86-001622
Steele, C. W.
86-001921
Steele, D. H.
86-000615
Steele, P. O.
86-003010
Steen, J. M. D.
86-000959
Stefan, J.
86-003451
Stefferud, J. A.
86-005360
Stegnar, P.
86-000957
Stehmann, M.
86-004899
Steimle, F. W.
86-003083
Steimle, F. W., Jr.
86-002802
Stein, D. L.
86-000560
Stein, J. E.
86-005186
86-005242
Stein, R. A.
86-002669
86-005351
Steiner, D. F.
86-003875
Steiner, W. W.
86-000507
Stene, A.
86-001922
86-002344
Stenseth, N. C.
86-004215
Stensvag, K.
86-004967
Stenton, C. E.
86-001990
Stephan, G.
86-002392
Stephens, C. A.
86-002026
Stephenson, M.
86-005214
Stepien, C. A.
86-000697
86-003797
Sterligova, O. P.
86-000698
Stern, M. E.
86-002287
Stevens, A.
86-001503
Stevens, E. D.
86-001390
86-003971
Stevens, E. G.
86-004867
86-004868
86-004900

...CONTINUED...
Stevens, E. G.
86-004901
86-004908
86-004909
Stevens, E. P.
86-001128
Stevens, R. E.
86-003348
Stevenson, R. M. W.
86-000869
86-002961
86-004958
Steward, C. R.
86-005411
Stewart, A. L.
86-004720
Stewart, D. J.
86-001773
86-004902
Stewart, K. M.
86-003639
Stewart, K. W.
86-001738
86-004606
Stewart, P. A. M.
86-001192
86-001193
Steyn, G. J.
86-002525
Stiassny, M. L. J.
86-002913
Stickney, R. R.
86-000079
86-000922
86-002043
86-002072
86-002100
86-002161
86-002162
86-003388
86-003468
86-003469
86-003578
Stiffler, D. F.
86-004047
Stillwell, C. E.
86-000684
Stinson, E. M.
86-002274
Stober, Q. J.
86-005411
Stockdale, T. M.
86-001336
Stocker, M.
86-001215
86-004780
Stockmann, W.
86-004047
Stockner, J. G.
86-003666
86-005574
Stoermer, E. F.
86-003638
Stohr, A. J. M.
86-002763
Stokes, G. N.
86-003091
Stokes, P. M.
86-001881
Stolen, J.
86-005148
Stolte, H.
86-002361
86-002371
Stolte, L. W.
86-005361
Stolyarov, I. A.
86-000699
Stone, D. B. III
86-005729
Stone, R. B.
86-003199
86-003200
Stoner, A. W.
86-004737
Storck, T. W.
86-000525
86-004597
Storebakken, T.
86-002101
Storelli, C.
86-003851
Stoskope, M. K.
86-004939
Stottrup, J. G.
86-002129
Stout, A. V.
86-005609
Stout, J. P.
86-001254
Strahan, R.
86-004903
Straight, L.
86-003350
Stranai, I.
86-004120
Strand, I. E.
86-000858
Strange, C. D.
86-002824
86-004194
Strange, R. J.
86-000753
Stratil, A.
86-002619
86-002620
86-002621
Stratton, G. W.
86-003151
Straty, R. R.
86-004473
Strauss, R. E.
86-000173
86-001391
86-001392
86-001547
86-003798
Strawn, K.
86-000058
86-002027
86-002110
86-002111
86-002115
86-002121
86-002123
Strawn, R. K.
86-002122
86-002127
Street, N. E.
86-001689
Streisinger, G.
86-001548
Strelnikova, A. P.
86-000177
Strettoi, E.
86-000320
Strickland, D.
86-001064
Strom, E.
86-004967
Stromberg, P. C.
86-000947

Strong, M. B.
86-003799
Stroud, R. H.
86-003349
86-003351
Strussmann, C.
86-002134
Stuart, C. T.
86-000518
Stuart, S.
86-001025
86-001923
Stuber, R. J.
86-001175
86-001246
Stuber, R. R.
86-003194
Stuckey, R. L.
86-001342
Studholme, K.
86-001522
Studnicka Siwicka, M.
86-002023
Studnicka, M.
86-002521
86-002526
Stuermer, C. A. O.
86-002281
Sturdivant, T. S.
86-002850
Sturm, M. G. de L.
86-004289
86-005683
Sturmbauer, C.
86-000071
86-002527
86-003579
Stutz, S. R.
86-003389
Stygar, V. M.
86-001760
Suarez, R. K.
86-004048
Suchanek, T. H.
86-004217
Sudekum, A. E.
86-004574
Sudo, H.
86-000703
Sueldo, C.
86-001705
Sugawara, Y.
86-003987
Sugita, H.
86-000396
Sugiwaka, K.
86-002062
86-002726
86-002803
Sugiyama, M.
86-003707
Suiko, M.
86-001498
Suitani, Y.
86-000070
Sukumaran, K. K.
86-000043
Sulak, K. J.
86-002842
Sullivan, C. R.
86-003352
Sullivan, C. V.
86-000397
Sullivan, G.
86-003358
Sullivan, G. M.
86-003357
Sullivan, M. G.
86-002889
Sumi, E.
86-001310
Sumida, B. Y.
86-001393
86-003679
86-003789
86-005730
Summerfelt, R. C.
86-005462
Summers, B.
86-003823
Summers, D. D.
86-002386
Sumpter, C. R.
86-001406
Sumpter, J. P.
86-002332
86-002528
86-002530
86-003873
Sumpter, P. S.
86-002529
Sun Qingping
86-004123
Sunaga, T.
86-004598
Sundaram, K. M. S.
86-001026
Sunder, S.
86-000700
Sundnes, G.
86-000460
Suns, K.
86-000968
Suresh, K.
86-001804
Surma-Aho, K.
86-000971
86-001870
Sutherland, D. L.
86-001070
Sutherland, D. R.
86-003045
Suthers, I. M.
86-001738
86-004474
Sutter, F. C.
86-004290
Suttle, C. A.
86-003668
Suttle, M. A.
86-000231
Sutton, J. A.
86-005200
Sutton, M.
86-004218
Suuronen, J. P.
86-005678
Suyama, M.
86-000398
86-002531
Suzuki, A.
86-000175
Suzuki, H.
86-000082
86-004544
86-005021
86-005064
Suzuki, K.
86-002700
86-002738

...CONTINUED...
Suzuki, K.
86-004049
Suzuki, M.
86-001564
86-001972
86-005508
Suzuki, R.
86-000047
86-000464
Suzuki, T.
86-000398
86-001436
86-002531
Suzuki, Y.
86-001506
86-003155
86-004050
86-005064
Svanberg, O.
86-005300
Svec, A. V.
86-002337
Svensson, I.
86-002630
Svetovidov, A. N.
86-004904
Sviridenko, M. A.
86-000124
Svobodova, Z.
86-003046
86-003125
86-005318
Swafford, M.
86-002118
Swales, S.
86-004372
Swallow, R. L.
86-000399
Swan, G. A.
86-005540
Swanson, C. D.
86-004510
Swanson, F. J.
86-005608
Swanson, G. M.
86-004653
Swanson, P.
86-000239
86-000400
Swartzman, G. L.
86-005548
Swarup, K.
86-001505
Sweatman, H. P. A.
86-000508
Sweeney, R. K.
86-003624
Sweet, R. D.
86-001797
Swenson, E. R.
86-002461
86-002532
86-002533
Swift, C. C.
86-004738
Swindoll, C. M.
86-004614
Swinney, G. N.
86-003266
Swofford, D. L.
86-004884
Sykes, P. A.
86-002108
86-003535
Symula, J.
86-005243
Syrovatka, N. I.
86-001311
Szalai, A. J.
86-005141
Szarowska, M.
86-003470
Szczyglinska, A.
86-003800
Szeto, S. Y.
86-001026
Szlaminska, M.
86-003580
Szlauer, B.
86-003614
Szumiec, J.
86-003471
86-003472
86-003473
Szumiec, M. A.
86-003415
86-003473
Szyper, J. P.
86-002163
Tabachek, J. L.
86-003581
Tabata, Y.
86-000262
Taber, B. A.
86-004291
Taber, C. A.
86-002687
86-004291
Taborsky, G.
86-003967
Taborsky, M.
86-001575
Tackett, D. L.
86-000003
Tacon, A. G. J.
86-003582
Tadajewska, M.
86-004654
Taffarel, M.
86-000174
Tafro, A.
86-000888
Tagami, D. T.
86-004657
86-005648
86-005685
86-005686
Tait, R. D.
86-004599
Tajima, K.
86-005008
86-005009
86-005010
86-005011
Tak Seng, L.
86-001840
Takabatake, I.
86-002410
Takada, K.
86-002447
Takahashi, A.
86-002308
Takahashi, H.
86-002380
86-003890
Takahashi, I. T.
86-000942
86-001009
Takahashi, K.
86-000401
86-000402

...CONTINUED...
Takahashi, K.
86-004051
86-005557
Takahashi, M.
86-002670
Takahashi, S.
86-004945
Takahashi, T.
86-004418
Takahashi, Y.
86-002962
Takama, K.
86-002534
Takami, I.
86-005054
Takamura, K.
86-004373
86-004529
Takashima, F.
86-000170
86-002134
86-002760
86-003423
86-003456
Takashima, N.
86-005012
Takechi, A.
86-001637
Takeda, M.
86-001321
86-001507
86-003071
86-005180
Takeda, Y.
86-005180
Takemura, A
86-002654
Takeuchi, S.
86-001184
Takeuchi, T.
86-000082
Takewa, T.
86-000287
Takii, K.
86-001507
Takizawa, H.
86-005074
Takranov, A. M.
86-004434
Takvorian, P. M.
86-002975
Talaat, K.
86-003285
Talbot, A. J.
86-004106
Talbot, C.
86-001494
86-004520
Talbot, C. W.
86-003201
Talbot, F. H.
86-004304
Talent, L. G.
86-001739
Talikina, M. G.
86-001871
Tallmark, B.
86-002804
Tam, P. P. L.
86-003983
Tam, W. H.
86-004052
86-005319
Tamai, Y.
86-002535
Tamaki, T.
86-000547
Tamarin, A.
86-003715
Tamaru, C. S.
86-002084
Tammert, M. F.
86-002600
Tamotsu, S.
86-004053
Tamura, S.
86-002234
Tan, B.
86-003156
86-005215
Tan, E. S. P.
86-002452
86-002453
Tan, J. D.
86-002536
Tana, J.
86-003157
86-005198
86-005320
Tanaichuk, R. W.
86-000117
Tanaka, M.
86-000546
86-000703
86-001656
86-004650
86-005064
Tanaka, S.
86-003801
Tanaka, Y.
86-004732
Tanangonan, J. B.
86-004650
Tandler, A.
86-000059
Tangtrongpiroj, J.
86-002998
Taniguchi, N.
86-000465
86-002617
Tanis, F. J.
86-005733
Tapia Garcia, M. T.
86-002742
Tappel, P. D.
86-003269
Tarabrin, A. G.
86-001760
Tarapchak, S. J.
86-003640
86-003669
86-003670
Tarbox N. T.
86-005321
Tarhanen, J.
86-000971
Tarkpea, M.
86-005232
Tarlebo, J.
86-001027
Tarnchalanukit, W.
86-003474
Tarpey, J. F.
86-000403
Tarter, D. C.
86-001842
Tarverdieva, M. I.
86-004600
Tash, J. C.
86-000678

...CONTINUED...
Tash, J. C.
86-002675
86-002809
86-004374
Tateda, Y.
86-001508
Tatner, M. F.
86-001803
86-003959
86-003960
Tatrai, I.
86-001690
86-002537
86-003641
86-004601
Tatsukawa, K.
86-004375
Tatsukawa, R.
86-005172
Tatsumi, H.
86-002234
Tatum, W. M.
86-002102
Tave, D.
86-004148
Tawara, Y.
86-002647
Tayaputch, N.
86-003111
Taylor, D.
86-001028
Taylor, E. B.
86-001394
86-001576
86-004219
86-004220
Taylor, E. W.
86-000125
86-000194
86-000195
86-002285
86-002538
Taylor, H. H.
86-002563
Taylor, J. D.
86-000223
Taylor, J. N.
86-003237
Taylor, L.
86-004739
Taylor, L. R., Jr.
86-004632
Taylor, L. R.,Jr.
86-004574
Taylor, M.
86-004925
Taylor, M. A.
86-002715
Taylor, M. H.
86-000404
86-000430
86-002387
86-002539
86-002682
Taylor, P. B.
86-002671
Taylor, S. G.
86-000931
Taylor, T. L.
86-004655
Taylor, W. D.
86-001235
86-005162
Taylor, W. W.
86-000590

...CONTINUED...
Taylor, W. W.
86-001224
86-002706
86-004602
Tchen, T. T.
86-000223
Tchobanoglous, G.
86-002037
Teal, J. M.
86-005623
Teather, K. L.
86-001609
Teel, D. J.
86-000458
Teeter, J. H.
86-002650
Temma, K.
86-000405
86-002432
86-002540
86-002541
86-003941
Temple, A. J.
86-000744
86-002937
Teng, S. K.
86-002103
86-002105
Tennison, D. E.
86-001129
Teranishi, T.
86-002062
Terceiro, M.
86-000764
Tereshchenko, V. G.
86-004206
Terlou, M.
86-003900
Terlouw, A.
86-003680
Terrell, J. W.
86-001933
Teruggi, S.
86-001985
Tesar, F. J.
86-005536
86-005538
Teshima, S.
86-002164
86-003554
Tesprateep, T.
86-002998
Testa, R.
86-004777
Tetens, V.
86-001417
Tetzlaff, B. L.
86-000733
Teubert, B. D.
86-005415
Texas Chapter of the American Fisheries Society
86-003309
Thayaparan, K.
86-004230
Thebault, H.
86-000406
Theberge, B.
86-003353
Thedinga, J. F.
86-004203
86-004376
86-005401
Theilacker, G. H.
86-000797

...CONTINUED...
Theilacker, G. H.
86-002542
86-004603
Theisen, B.
86-003802
Theochari, V.
86-000062
Theurer, F. D.
86-000969
Thiel, H. U.
86-005731
Thiele, G.
86-003973
86-003981
Thim, L.
86-000225
86-000226
Thirapatsakun, T.
86-002998
Thiyagarajah, A.
86-000932
Thode, G.
86-000448
Thomas, A. C.
86-002211
Thomas, B. L.
86-001876
Thomas, D. G.
86-001029
86-005159
Thomas, D. H.
86-001691
Thomas, M.
86-000502
Thomas, P.
86-000412
86-002170
86-002745
86-003113
Thomas, R. E.
86-003158
86-004054
Thomas, S.
86-000407
86-001509
Thomas, V. G.
86-001130
Thomas, W. K.
86-000468
86-002543
Thompson, B. T.
86-002963
Thompson, B. Z.
86-002548
Thompson, C. M.
86-003117
Thompson, K. J.
86-000408
Thompson, K. W.
86-001598
86-003232
Thompson, M. J.
86-001087
Thompson, R. B.
86-003222
Thomsen, H. A.
86-001873
Thomsen, I.
86-002987
Thomsen, K. S.
86-001599
Thomson, A. W.
86-001467
Thomson, K. S.
86-004871
Thomson, M.
86-003822
86-003823
Thoney, D. A.
86-005149
Thoresson, G.
86-005178
Thorgaard, G. H.
86-004137
Thorman, S.
86-004778
Thorndyke, M. C.
86-004055
Thornton, S.
86-005688
Thoroed, S. M.
86-002379
Thorpe, A.
86-001355
Thorpe, J. P.
86-000237
Thorsen, J.
86-003394
Thresher, R.
86-004221
Thresher, R. E.
86-004377
86-005732
Thuemler, T. F.
86-000020
86-001247
Thune, R. L.
86-001808
Thurow, F.
86-004378
Thurow, R.
86-005362
Thurston, R. V.
86-000999
86-003159
Tianyou, F.
86-002903
Tiedge, H.
86-001924
Tiews, K.
86-000945
Tighe, K. A.
86-004855
86-004905
Tijssen, P. A. T.
86-001317
Tikhonov, S. V.
86-005558
Tilney, R. L.
86-000151
Tilseth, S.
86-005500
Timeiko, V. N.
86-000409
Timeyko, V. N.
86-004056
Timmerman, J. A., Jr.
86-003179
Timmermans, L. P. M.
86-001381
86-002195
Timmins, C. A.
86-004680
Timmons, T. J.
86-004604
Timofeeva, T. A.
86-003047
Timola, O.
86-000701
86-000808

...CONTINUED...
Timola, O.
86-000933
Timov, L. S.
86-003263
Timur, G.
86-000934
86-002964
Timur, M.
86-000934
86-002964
Tirri, R.
86-002421
Tito de Morais, L.
86-001706
86-004605
Tkaczyk, M.
86-003583
Todd, C. S.
86-004606
Todd, S. K.
86-003753
Todd, T. N.
86-001549
86-004898
86-005486
86-005579
Togstad, H. A.
86-003185
Tokai, T.
86-001700
86-002829
86-002830
Tokranov, A. M.
86-000702
86-002805
Tokui, T.
86-002673
Tokumori, H.
86-005044
Tokuyama, K.
86-000396
Tolson, G. M.
86-001570
Tom, M.
86-001127
Tomasso, J. R.
86-002168
86-002171
86-003160
86-003467
86-005322
86-005323
Tomeko, C. M.
86-004696
Tomita, A. K.
86-004574
Tomiyama, M.
86-000703
Tomljanovich, D. A.
86-005522
Tomonaga, S.
86-004057
86-004058
Tompkins, J.
86-002266
Tompkins, W. A.
86-002836
Tong, H. Y.
86-004656
Tongiorgi, P.
86-002672
Tonn, W. M.
86-001761
Toppin, S. R. V.
86-001030
Topping, J. J.
86-001856
86-001857
Topping, M. S.
86-004291
Toranzo, A. E.
86-004992
Torblaa, R. L.
86-001534
Toriyama, M.
86-000763
Torrance, P.
86-000231
Torrealba, J. M.
86-005150
Torrealba, L.
86-005150
Torres, A.
86-004097
Torres, E.
86-001935
Torres, P.
86-001925
Torricelli, P.
86-001577
Torrissen, K. R.
86-000013
86-000410
Torrissen, O. J.
86-000410
86-002063
Tort, L.
86-001925
Tortonese, E.
86-002282
86-004743
Tosaki, M.
86-002118
Tosi, L.
86-002672
Toth, G. L.
86-004601
Toth, L. T.
86-001402
Toulmond, A.
86-002544
Townsend, C. R.
86-002806
Townsend, R. E.
86-001939
Townshend, T. J.
86-001649
Toyama, F.
86-005063
Toyohara, H.
86-000411
86-001483
86-001484
Trama, F. B.
86-002198
Trant, J. M.
86-000412
Travis, J.
86-002750
86-004396
Traxler, G. S.
86-004950
Trebatoski, R. J.
86-002719
Trendall, J. T.
86-004292
Treshchev, A. I.
86-005523
86-005524
Trewavas, E.
86-003803

Trexler, J. C.
86-000413
86-004396
Trial, L.
86-000519
Tricas, T. C.
86-004607
Trieger, G.
86-003425
Trigari, G.
86-002487
Trimmer, J. S.
86-004603
Trinkaus, J. P.
86-002223
Tripathi, I. M.
86-003995
Tripathi, S. D.
86-000069
86-003475
Troadec
86-005684
Troutman, H. L.
86-001096
Truchet, M.
86-005249
Trunoc, I. A.
86-000782
Truscott, B.
86-002545
Trust, T. J.
86-002965
Tryapshene, O. P.
86-002517
Tsai, S.
86-005013
Tsarev, Y. T.
86-000837
Tsarin, S. A.
86-002871
Tschumi, P.
86-004345
Tse, J.
86-003709
86-003710
Tsekov, A.
86-004059
86-004139
Tseytlin, V. B.
86-005562
Tsin, A. T. C.
86-002546
Tsoi, E. S.
86-001809
Tsuda, R.
86-001310
Tsuda, S.
86-001448
Tsukahara, T.
86-002547
Tsukamoto, K.
86-001166
Tsukashima, Y.
86-000082
Tsukuda, H.
86-000414
86-002574
Tsumura, K.
86-005525
Tsuneki, K.
86-000175
Tsuruta, Y.
86-000153
Tsuyuki, H.
86-004109
Tsvetnenko, Y. B.
86-001289
Tubb, R. A.
86-001083
Tucker, B. W.
86-002165
Tucker, C. S.
86-005324
Tucker, J. W., Jr.
86-000112
86-003804
Tucker, W. H.
86-004111
Tugarina, P. Y.
86-004895
Tugay, V. A.
86-003958
Tulliez, J.
86-001888
86-001889
Tung, M.
86-005013
Turner, B. J.
86-002625
Turner, C. J.
86-001294
Turner, J. D.
86-001510
Turner, J. W. D.
86-002130
86-002131
Turner, L. J.
86-000593
Turner, R. E.
86-000806
Turner, S. C.
86-004379
Turner, S. E.
86-005363
Turovskij, A.
86-004940
Tusek-Znidaric, M.
86-000957
Tuunainen, P.
86-005416
Tveranger, B.
86-000415
86-002064
Tvirbutas, A.
86-003371
Tyagi, B. C.
86-005006
Tyagi, R. K.
86-003153
Tyberghein, E. J.
86-001732
Tyler, A. V.
86-001619
86-004780
Tyler, R. W.
86-001650
Tytler, P.
86-000416
Tyus, H. M.
86-004435
86-004436
Tyynela, M.
86-003147
U.S. Fish and Wildlife Service
86-003250
Uchida, K.
86-000417
Uchida, N.
86-004060
Uchida, R. N.
86-004740

...CONTINUED...
Uchida, R. N.
86-005275
86-005439
86-005685
Uchiyama, J. H.
86-002837
86-004657
86-004740
86-005686
Uchiyama, Y.
86-002164
Uchmanski, J.
86-003552
Udupa, K. S.
86-000745
Ueck, M.
86-003990
Ueda, K.
86-002673
Ueda, T.
86-003071
86-003155
86-004149
86-005180
Ueki, N.
86-005102
Uemura, T.
86-004948
Ueno, K.
86-002618
Ueno, R.
86-004061
Ueno, S.
86-001511
86-003990
Ueyanagi, S.
86-004806
Ulrich, G. F.
86-001267
86-003334
Underwood, J. L.
86-002548
UNESCO
86-005687
Ungell, A.
86-000418
Unger, P. A.
86-001624
United States Government Accounting Office
86-003084
Unkel, W. C.
86-001065
Unkenholz, D. G.
86-005417
Unni, K. S.
86-001283
Uno, S.
86-005132
Unwin, M. J.
86-004293
Uotani, I.
86-000704
Upton, S. J.
86-001817
Urawa, S.
86-005045
Urazbayev, Z.
86-002796
Urban-Jezierska, E.
86-003552
Urban, E.
86-002549
Urbaniec-Brozda, W.
86-003476

...CONTINUED...
Urbaniec-Brozda, W.
86-003477
Uribe, R.
86-002277
Urich, D. L.
86-001942
Urich, K.
86-001924
Urquhart, D.
86-003849
Uryn, B.
86-002023
Ushiyama, M.
86-005064
USSR, Akademiya Nauk SSSR, Zoologicheskii Institut
86-000859
Uthe, J. F.
86-005216
Utter, F.
86-000460
Utter, F. M.
86-000458
86-002610
86-005464
Uwa, H.
86-000442
86-000457
86-002914
Vaccarella, R.
86-003403
Vadiya, V.
86-000783
Vaillancourt, R.
86-000746
Vaini, F. A.
86-005487
Vajdak, B.
86-003607
Val, A. L.
86-002550
Valdes-Gonzalez, A.
86-003805
Valdes-Munoz, E.
86-004730
Valdes, R.
86-004730
Valdez, J.
86-000813
Valdivieso, D.
86-001707
Valdivieso, N.
86-001707
Vale, W. W.
86-002420
Valenta, M.
86-002619
86-002620
86-002621
Valenta, S.
86-002619
Valentincic, T.
86-001578
Valentine, G.
86-003308
Valerio, M.
86-002674
Valiela, I.
86-004613
Vallarino, M.
86-000419
Valtonen, E. T.
86-000706
86-000847
86-000860

...CONTINUED...
Valtonen, E. T.
86-000935
86-002955
Valtonen, T.
86-000706
86-000808
86-000838
86-000860
86-000935
86-004380
Van Aardt, W. J.
86-001512
Van Alstine, J. M.
86-002965
Van As, J. G.
86-000892
86-001823
Van Beneden, R.
86-001883
86-002609
Van Beneden, R. J.
86-002622
86-003821
Van Berkel, J. G. J. M.
86-002849
Van Craenenbroeck, W.
86-005224
Van Den Avyle, M. J.
86-004248
Van den Berg, A. V.
86-001579
Van den Boogaart, J. G. M.
86-002195
86-004503
Van den Hurk, R.
86-000207
Van den Thillart, G.
86-004062
Van Densen, W. L. T.
86-000679
86-000707
86-004611
Van der Gaag, M. A.
86-001926
Van der Kerkhoff, J. F. J.
86-001926
Van Der Kraak, G.
86-002373
Van Der Kraak, G. J.
86-002551
Van der Loo, J. C. M.
86-000234
Van der Meij, J. C. A.
86-001929
Van der Rest, M.
86-004035
Van der Veer, H. W.
86-000809
86-002739
Van der Waal, B. C. W.
86-000048
Van der Wal, H.
86-003377
Van Devender, T. R.
86-001785
Van Deventer, J. S.
86-003277
Van Dorsselaer, A.
86-002374
Van Driessche, W.
86-002552
Van Duyn-Henderson, J. A.
86-003642
Van Dyke, L.
86-000594
Van Dykhuizen, G.
86-002646
Van Eeckhaute, L.
86-000998
Van Ginkel, F. W.
86-000420
Van Havre, N.
86-001555
Van Hoof, E.
86-005224
Van Hove, C.
86-002773
Van Leeuwen, C. J.
86-001031
86-001032
Van Leeuwen, J. L.
86-001680
Van Muiswinkel, W. B.
86-000420
86-004980
Van Nieuwenhuyse, E. E.
86-000970
Van Olst, J. C.
86-001052
Van Oordt, P. G. W. J.
86-000356
86-003865
86-003901
Van Orman, D
86-001069
Van Rijn, J.
86-003389
Van Rijs, J. H.
86-001433
Van Rompaey, J.
86-002623
Van Than, N.
86-003028
Van Utrecht, W. L.
86-001708
Van Velson, R. C.
86-001992
86-003311
Van Vuren, J. H. J.
86-000606
86-001927
86-002525
Van Winkoop, A.
86-002195
Vande Vusse, F. J.
86-001131
Vandesande, F.
86-002225
Vandeveer, L. R.
86-002077
Vanleeuwen, J. L.
86-003769
86-004567
86-004608
Varallo, P. V.
86-003270
Varanasi, U.
86-005186
86-005242
Vari, R. P.
86-000839
86-002915
Varnavskaya, N. V.
86-000466
Varnavskiy, V. S.
86-000466
Vasanth, N.
86-000176
Vasil'ev, V. P.
86-001550

Vasil'eva, E. D.
86-001786
Vasileva, E. D.
86-001550
Vass, W. P.
86-003656
Vaux, P. D.
86-001740
Vazquez, J.
86-000042
86-003478
Vecchi, M.
86-001388
Veerabhadran, N.
86-004779
Veie-Rosvoll, B.
86-003363
Veith, W. J.
86-002333
Velayudhan, A. K.
86-000548
Velde, E. W.
86-000959
Veloso F., C.
86-000810
Veltkamp, C. J.
86-003003
Venables, B. J.
86-000421
Vendegna, V.
86-001985
Vendeville, J. E.
86-002150
Venema, S. C.
86-000087
Venkateswarlu, T.
86-000784
Ventrella, V.
86-002487
Ventura, M. T.
86-000891
Verbeeck, E.
86-003944
Verdonck, W.
86-002225
Vergara, R. P.
86-004063
Vergouw, W. H. A.
86-001031
86-001032
Verheyen, E.
86-002353
86-002553
86-002623
Verigina, I. A.
86-001373
Vermaak, J. F.
86-000606
Vermeij, G. J.
86-004609
Vernier, J. M.
86-003897
Verreth, J. A. J.
86-003382
Verspoor, E.
86-004150
Versteeg, D. J.
86-001928
Verta, M.
86-005190
Vertunova, A. M.
86-004414
Vesey, G.
86-001600
Veshchev, P. V.
86-001759
Vestergard Jorgensen, P. E.
86-002996
Vetter, R. D.
86-004064
Vianet, R.
86-004366
Vicente, N.
86-003360
Victor, B. C.
86-002283
86-002740
86-002741
Victoria D., P.
86-004741
Vidal, B.
86-003772
Videler, J. J.
86-000509
Vigerstad, T. J.
86-004610
Vigg, S.
86-000669
86-003806
86-004287
86-004294
Vigna, S. R.
86-000422
86-004065
Vignieri, J. C.
86-002999
86-005076
Vijverberg, J.
86-000679
86-004611
Vila, I
86-004295
Vilella, S.
86-003851
Viljanen, M.
86-004296
86-004381
Viljoen, B. C. S.
86-003048
Viljoen, S.
86-000892
Villalba, C.
86-003014
Villarreal-Trevino, C. M.
86-005217
Villars, T. A.
86-004066
Villegas-Navarro, A.
86-005217
Villwock, W.
86-001551
Viluksela, M.
86-003147
Vincent, E. R.
86-005488
Vinjoy, M.
86-005134
86-005151
Vinogradov, G. A.
86-001033
Vinter, B. M.
86-000160
Vinyard, G. L.
86-000792
Viola, S.
86-000086
86-002137
86-002166
86-003584
Violetta, G.
86-000113

Virchenko, Y. P.
86-005157
Visser, J. G. J.
86-000193
Vitins, M.
86-004767
Vitturi, R.
86-002585
86-004151
Viviani, R.
86-003860
Vlachos, C. G.
86-002692
Vladykov, V. D.
86-001853
Vobach, M.
86-005166
Vogel, D. A.
86-000018
Vogel, S.
86-001000
Vogt, N. B.
86-001276
Voiland, M. P., Jr.
86-003279
Vokler, T.
86-002418
Volk, E. C.
86-004658
Volkov, A. F.
86-000794
Vollestad, L. A.
86-000705
86-001692
86-004452
Volobuev, V. V.
86-002701
Volodin, V. M.
86-000177
86-002554
Volodina, N. A.
86-003399
Volovik, S. P.
86-001970
86-005418
86-005568
Voltolina, D.
86-002208
Volynkin, Y. L.
86-004067
Von Bartheld, C. S.
86-002284
86-003807
Von Der Decken, A.
86-002485
Vondracek, B.
86-004360
Vooren, A. V.
86-004760
Vorger, P.
86-000423
86-002555
Vorob'yev, V. I.
86-003479
Vorobyeva, E. I.
86-000785
Vos, G.
86-003085
Voss, B.
86-000424
86-001513
Vostradovsky, J.
86-005620
Vranovsky, M.
86-003480
Vrijenhoek, R. C.
86-004152
Vuorela, R.
86-000315
Vuorinen, I.
86-001230
Vuorinen, J.
86-004153
86-004154
Vuorinen, M.
86-001034
86-005325
Vuorinen, P. J.
86-000971
86-001034
86-005325
Vyskrebentsev, B. V.
86-004222
Wada, K.
86-001436
Wada, S.
86-005070
86-005071
86-005102
Wade, S. O.
86-002012
Wadhwa, S.
86-000255
Wagener, S. M.
86-000972
Wagner, B. A.
86-002872
Wagner, G. F.
86-000425
86-001709
86-002556
86-002557
86-002558
86-003821
86-004068
Wagner, W. C.
86-002706
Wahbeh, M. I.
86-000708
Wahlqvist, I.
86-000389
Waiwood, B. A.
86-000998
Wakabayashi, H.
86-003980
86-004971
86-004988
86-004995
86-005014
Wakabayashi, K.
86-001002
Wakabayashi, M.
86-003135
Wakefield, P. M.
86-004749
Wakeman, J. M.
86-001625
Waknitz, F. W.
86-001523
86-002052
Walczak, B. Z.
86-005326
Waldman, J. R.
86-004906
Waldron, K. D.
86-004742
Waldrop, J. E.
86-003431
Wales, D.
86-003086

Wales, N. A. M.
86-002559
Walker, C.
86-001548
Walker, K. F.
86-005588
Walker, M. M.
86-000491
Walker, R. J.
86-000747
Walker, T. K.
86-002332
Walker, W. W.
86-003108
86-005265
Wallace, C. J.
86-000114
Wallace, D. N.
86-004174
Wallace, P. D.
86-002560
Wallace, R. A.
86-000311
86-002387
86-002515
86-004033
Wallace, R. J.
86-005242
Wallace, S. A.
86-002807
Waller, R. S.
86-004290
Wallus, R.
86-004437
Wallwork-Barber, M. K.
86-000973
Walsh, D. F.
86-002038
Walsh, J. M.
86-002545
Walsh, P. J.
86-000334
86-001514
Walter, G. G.
86-005569
Walter, R. A.
86-003671
Walters, C. J.
86-004571
86-004780
86-005570
Walters, J.
86-005688
Waltman, W. D.
86-000864
86-001807
86-004970
86-005007
86-005015
Walton, J. M.
86-003203
Walton, M. J.
86-001322
86-004069
Walz, U.
86-001491
Wandsvik, A.
86-002101
Wang, C.
86-005120
Wang, J.
86-004565
Wang, J. C. S.
86-001741
86-005506
Wang, M. Y.
86-003257
Wang, N. C.
86-003929
Wang, Y. L.
86-000178
Wang, Z. G.
86-002966
Wangaard, D. B.
86-005586
Wanjala, B.
86-004374
Wanjala, B. S.
86-002675
86-004475
Wanyou, B.
86-005191
Waples, R. S.
86-002612
Ward, F. J.
86-000165
86-003918
86-004653
Ward, G. M.
86-005419
Ward, J. A.
86-003154
Ward, J. F.
86-002631
Wardle, C. S.
86-002676
Ware, D. M.
86-000117
Warinner, J. E.
86-005219
Warkentine, B. E.
86-002833
86-002838
Warlen, S. M.
86-001710
Warner, J.
86-002808
Warner, K.
86-005364
Warner, R.
86-005688
Warphea, K.
86-000676
Warren, L. A.
86-003140
Warren, M. L., Jr.
86-001728
86-004240
Wascom, M. W.
86-001607
Washington Department of Fisheries
86-005610
Washington, B. B.
86-002916
86-003808
86-005730
Washtington, B. B.
86-004907
Wassef, E.
86-000595
Wasserman, L. J.
86-002886
Watabe, S.
86-000287
86-000288
Watanabe, K.
86-004544
Watanabe, T.
86-000081
86-000082

...CONTINUED...
Watanabe, T.
86-003585
Watanabe, W. O.
86-000426
86-000427
86-002561
Watanabe, Y.
86-003902
Watermann, B.
86-003004
86-005152
Waters, J. R.
86-001203
Waterstrat, P. R.
86-000896
Watson, D. G.
86-001998
Watson, D. K.
86-002622
Watson, J. W., Jr.
86-001135
Watson, N. R. N.
86-000637
Watson, R. A.
86-000541
Watson, T. A.
86-002399
Watson, W.
86-004867
86-004868
86-004900
86-004901
86-004908
86-004909
Watt, P. W.
86-002397
Watt, W. D.
86-005218
Wattanavijarn, W.
86-002998
Wattendorf, R. J.
86-000004
86-004137
86-004155
Waxman, S. G.
86-003682
Wayne, L. M.
86-000626
Weatherley, A. H.
86-000649
86-002406
Weaver, O. R.
86-003233
Weaver, T. M.
86-005209
Webb, C. J.
86-002624
Webb, J. F.
86-000179
Webb, P. W.
86-001562
86-003809
86-004612
Weber, C.
86-001787
Weber, E. C.
86-002761
Weber, G. M.
86-003507
Weber, J.
86-001515
Weber, M.
86-005689
Weber, R. E.
86-002415
...CONTINUED...
Weber, R. E.
86-002416
Weber, W.
86-004297
86-004704
Webster, G. R. B.
86-001911
Webster, S. K.
86-000115
Wechsler, S. J.
86-000902
Wee, K. L.
86-000049
Week, L. E.
86-004223
Weekes, P. J.
86-003049
Weeks, B. A.
86-005219
Weeks, H. J.
86-000748
86-002702
Wehnert, S. D.
86-005046
Weidlein, W. D.
86-005604
Weigmann, D. L.
86-001241
Weihs, D.
86-003809
Weil, C.
86-002562
86-003523
Weill, R. M.
86-001717
Weiner, G. S.
86-005327
Weiner, S. L.
86-000373
Weinstein, M. P.
86-004476
Weis-Glanz, L. S.
86-000543
Weis, J.
86-004998
Weis, J. S.
86-003161
Weis, P.
86-003161
Weisbart, M.
86-000218
Weisberg, S. B.
86-002677
86-002839
Weishun, H.
86-001544
Weitkamp, D. E.
86-004392
Weitzman, M.
86-000840
86-001742
Weitzman, S. H.
86-001742
86-002917
86-004782
Weixian, L.
86-001788
Wejksnora, P. J.
86-001543
Welch, H. E.
86-002204
Welch, R. L.
86-003140
Welcomme, R. L.
86-003251

...CONTINUED...
Welcomme, R. L.
86-003304
Welden, B. A.
86-004627
Wellington, G. M.
86-002741
Wells, D. E.
86-003124
Wells, J.
86-005454
Wells, N. R.
86-000987
Wells, R. M. G.
86-000278
86-000313
86-000314
86-001417
86-001480
86-002563
86-004070
Welsh, D. W.
86-001986
Welsh, T. L.
86-004392
Wenbiao, Z.
86-001651
Wendelaar Bonga, S. E.
86-001432
86-001433
86-001929
Wendelaar Bonga, S. W.
86-002681
Wenger, M. N.
86-004438
Wentworth, B. C.
86-000318
86-001337
Weppe, M.
86-003487
Werner, M.
86-002018
Werner, R. G.
86-003731
Wertheimer, A. C.
86-000608
86-002967
Wesche, T. A.
86-001092
86-001248
Wespestad, V. G.
86-004298
West, C. W.
86-001974
West, D. L.
86-004195
West, N.
86-005733
West, R.
86-004441
Westbury, H. A.
86-005056
Westby, G. W. M.
86-001457
Westerberg, H.
86-000476
86-001167
Westerman, A. G.
86-000983
Westermann, J. E. M.
86-001401
Westermeyer, W.
86-001157
Westers, H.
86-003376
86-003481
Westin, D. T.
86-004071
Westman, K.
86-005416
86-005420
Westphal, W.
86-000768
Westrheim, S. J.
86-001194
86-004780
Wetherington, J. D.
86-002522
Whalen, S. C.
86-002212
Wheaton, F. W.
86-002188
86-002196
Wheeler, A.
86-002873
Whillans, T. H.
86-003289
Whipple, J. A.
86-000985
Whitaker, D. J.
86-001794
86-002938
86-005033
Whitaker, J. O., Jr.
86-004753
White, A.
86-001735
86-002564
86-004072
86-005257
White, A. M.
86-001975
White, B. N.
86-000841
86-004910
White, D. S.
86-004613
White, J. R.
86-001962
White, M. M.
86-002625
86-002678
White, R. G.
86-001952
White, R. J.
86-004178
White, R. W. G.
86-000991
Whitear, M.
86-003740
Whitehead, P. J. P.
86-000842
86-003368
86-004743
Whiteside , L. A.
86-004299
Whiteside, B. G.
86-000626
86-002807
Whiteside, M. C.
86-004614
Whitfield, A. K.
86-000709
86-005580
Whitley, G. P.
86-004911
Whitman, P. A.
86-004073
Whitmore, D. H.
86-002428
86-002626

...CONTINUED...
Whitmore, D. H.
86-003937
Whitney, C. E.
86-005349
Whitney, K. G.
86-005349
Whitt, G. S.
86-001384
86-001542
Whittington, I. D.
86-003050
Whittle, D. M.
86-000974
Whitworth, W.
86-005544
Whoriskey, F. G.
86-000510
86-000627
Wick, E. J.
86-004436
Wicker, A. M.
86-002652
Wickins, J. F.
86-001306
Wickwire, R.
86-002860
Widlak, J. C.
86-000561
Wieberdink, G.
86-001333
Wiederholt, M.
86-002565
Wiederholt, T.
86-002565
Wiegand, M. D.
86-002566
Wieland, W.
86-002703
Wiener, J. G.
86-001516
86-004770
Wieser, W.
86-000428
86-001517
86-001518
Wigham, T
86-005277
Wildrick, D. M.
86-000467
Wiles, M.
86-003009
Wiles, T.
86-002844
Wiley, E. O.
86-002918
Wiley, E. P.
86-000762
Wilford, D. J.
86-005220
Wilhm, J.
86-002199
Wilk, S. J.
86-003354
Wilkens, H.
86-004156
Wilkes, P. R. H.
86-002567
86-002568
Wilkie, D.
86-002385
Wilkins, B. T.
86-001145
Wilkinson, M. T.
86-005098
86-005101
Wilkinson, R. C.
86-004502
Willason, S. W.
86-002213
Willemsen, J.
86-005221
Willford, W. A.
86-003059
Williams, A. H.
86-004195
Williams, A.
86-003264
Williams, A. E.
86-002067
Williams, A. M.
86-002088
Williams, B.
86-003967
Williams, C. V.
86-000520
Williams, D. M.
86-001626
86-004369
Williams, E. H.
86-000913
Williams, E. H., Jr.
86-005097
Williams, H. A.
86-005670
Williams, H. H.
86-003008
Williams, J. E.
86-000811
86-001059
Williams, L.
86-001140
Williams, L. B.
86-005097
Williams, L. M.
86-005056
Williams, M. J.
86-002011
Williams, R.
86-004615
Williams, R. C.
86-001335
Williamson, J. H.
86-002073
86-003421
86-003467
86-005456
86-005465
Williamson, K. L.
86-000562
Williamson, R.
86-002474
Williamson, S. C.
86-003180
Williot, P.
86-003521
86-003522
Willis, C. A.
86-003152
Willis, D. E.
86-003146
Willis, D. W.
86-003312
86-005365
Willis, L. D.
86-000786
Willoughby, L. G.
86-000880
Wilmot, R. L.
86-004157
86-005586

Wilson, A.
86-005016
Wilson, A. C.
86-004145
Wilson, G. M.
86-000468
Wilson, J. L.
86-000691
86-000710
Wilson, K. C.
86-003185
Wilson, P. T.
86-002569
Wilson, R. P.
86-000083
86-000084
86-000429
86-001322
86-002142
86-003548
86-003586
Wilson, R. R., Jr.
86-000511
Wilson, S. J.
86-003067
Wilson, W. J.
86-004776
86-005366
Wilton, M. L.
86-001132
Wiltz, J. W.
86-004912
Wiltzius, W. J.
86-001176
Wilzbach, M. A.
86-000512
86-004616
86-005421
Winans, G. A.
86-000180
86-000458
Winch, J. M.
86-005153
Windell, J. T.
86-002725
86-003305
Winfield, I. J.
86-002806
Winkler, H.
86-002240
Winner, S. M.
86-000430
Winnicki, A.
86-003393
Winstone, A. J.
86-003270
Winter, B. D.
86-002019
Winter, J. D.
86-004438
86-004777
Winterbottom, R.
86-004744
Winton, J. R.
86-005072
Wippelhauser, G. S.
86-001727
86-001743
Wirtz, P.
86-002239
Wise, D. A.
86-005330
Wise, J. A.
86-000903
86-000904
Wisniewski, M.
86-000861
Wissing, T. E.
86-000268
86-001444
86-001681
86-002645
Witalinski, W.
86-000181
Withers, D.
86-001934
Withington-Wray, D. J.
86-002285
Withler, R. E.
86-002543
86-002627
86-004158
Withrow, T. G.
86-005540
Witkowski, A.
86-002840
86-002874
86-004094
86-004617
Witt, A., Jr.
86-001008
Witte, F.
86-004913
Witte, J. I.
86-000812
Witters, H. E.
86-005328
Wittrock, D. D.
86-003045
Witzell, W. N.
86-001154
Wlasow, T.
86-001891
86-003587
Wlodek, J. M.
86-002841
Wohlfarth, G.
86-004113
Wohlfarth, G. W.
86-000749
Wohlschlag, N. S.
86-005305
Wokoma, A.
86-001451
Wolburg, H.
86-002286
Wold, E.
86-004086
Wolenski, J.
86-000228
86-000431
Wolf, C. H.
86-003117
Wolf, K.
86-000010
86-000893
86-001035
86-001818
86-002570
86-002922
Wolf, P.
86-001627
Wolf, R.
86-001491
Wolfe, M. J.
86-000926
Wolfert, D. R.
86-004361
86-004714
Wolff, N. A.
86-002430

...CONTINUED...
Wolff, N. A.
86-002571
86-002572
Wolke, R. E.
86-001036
Wong, D. M.
86-004677
86-004678
Wong, M. H.
86-003122
Wongratana, T.
86-002919
Woo, N. Y. S.
86-000380
86-003983
Woo, P. T. K.
86-005046
Wood, C.
86-000594
Wood, C. C.
86-000711
Wood, C. M.
86-000353
86-001024
86-002470
86-004074
Wood, D. B.
86-001153
Wood, J.
86-002995
Wood, M. R.
86-001519
Wood, S. C.
86-002349
Woodhead, A. D.
86-001652
86-004439
Woodhead, P. M. J.
86-001133
86-001134
Woodhead, R. M. J.
86-003202
Woodman, D. A.
86-001552
Woodside, M.
86-000975
Woodsum, R. E.
86-005711
Woodward, D. F.
86-001037
Woodworth, J.
86-005301
Woolcott, W. S.
86-003767
86-004639
Wooley, C. M.
86-000563
86-003810
Woolsey, E. A.
86-004382
Wooton, R. J.
86-004433
Wootton, R. J.
86-001649
Workman, I. K.
86-001135
Worniallo, E.
86-000016
86-000019
86-003126
Wortley, J. S.
86-002711
86-002723
Wosnitza-Mendo, C.
86-004659
Wrathmell, A.
86-002270
86-003723
Wren, C. D.
86-003087
Wright, A.
86-002704
Wright, D. A.
86-001520
Wright, D. I.
86-004572
Wright, G. M.
86-004075
86-004076
Wright, J. E.
86-004835
Wright, R. F.
86-005222
Wright, R. M.
86-004511
Wroblewski, J. S.
86-000756
86-001945
Wu, J.
86-001522
Wurth, Y. A.
86-001418
Wurts, W.
86-002161
Wurts, W. A.
86-003578
Wyban, J. A.
86-002084
Wyche, C. J.
86-002662
86-004618
Wydoski, R. S.
86-001940
Wyers, E. J.
86-001580
Wyman, R. L.
86-003176
Xinluo, C.
86-002897
Xu, B. H.
86-002966
Yablokov, A. V.
86-005157
Yadav, A. N.
86-003811
Yagi, H.
86-003510
Yagi, T.
86-002573
Yagita, K.
86-003162
Yakimovets, A. V.
86-005502
Yakovenko, B. V.
86-003943
Yamada, C.
86-000348
86-004077
Yamada, F.
86-002968
86-004968
86-004969
Yamada, L.
86-000363
Yamada, N.
86-000290
Yamada, S.
86-003588
86-004077
Yamada, Y.
86-000432

Yamagami, K.
S6-002255
Yamaguchi, H.
S6-004300
Yamaguchi, K.
S6-000070
S6-000393
Yamaguchi, R.
S6-001454
Yamaguchi, Y.
S6-001700
S6-002829
S6-002830
Yamaha, T.
S6-003812
Yamamoto, K.
S6-003891
Yamamoto, T.
S6-000905
S6-001367
S6-001370
S6-002007
S6-005073
Yamamoto, Y.
S6-001038
86-001039
Yamanaka, H.
86-002413
Yamaoka, K.
S6-004619
Yamasaki, S.
S6-000269
Yamashita, M.
S6-003380
86-003390
Yamashita, Y.
S6-000712
S6-004001
S6-004016
Yamawaki, H.
S6-002574
Yamawaki, N.
S6-001002
S6-003163
S6-003164
Yamazaki, T.
S6-002004
S6-002295
S6-004127
Yamazaki, Y.
S6-002134
Yan, X.
S6-001501
Yan, X. J.
S6-003672
Yancey, P. H.
S6-000433
S6-004056
Yanez Arancibia, A.
S6-002706
S6-002742
Yang, H. C.
S6-005329
Yang, J.
S6-002575
Yang, X.
S6-003707
Yang, Z. R.
S6-004363
Yanagihara, N. A.
S6-004616
S6-004622
Yanbowsky, E. J.
S6-005332
Yarechewski, A. L.
S6-001911
Yaron, Z.
86-002450
Yarzhombek, A. A.
86-002159
Yaskawa, K.
86-002673
Yasuhiko, J.
S6-004994
Yasumoto, S.
86-002950
86-005054
Yasunaga, N.
86-002950
86-005054
86-005070
Yasutake, W. T.
86-004941
Yavonenko, A. F.
86-003943
Yazhombek, A. A.
86-004080
Yazulla, S.
86-001522
Yeager, B. L.
S6-003813
Yeager, D. M.
S6-001177
Yee, R. W.
86-002287
Yefimova, N. A.
86-001400
Yeh, Y.
S6-002314
S6-003848
Yen, M. D.
S6-005223
Yeo, S.
S6-000394
Yeo, S. E.
S6-000936
Yette, H. E.
S6-002158
Yevtushenko, N. Y.
86-004018
Yli-Karjanmaa, S.
86-001182
Yodav, A. K.
S6-001930
Yoder, C. O.
S6-002875
Yokhayvich, M. M.
S6-000717
Yone, Y.
S6-002167
S6-003588
Yonezawa, S.
S6-002576
Yongyong, T.
S6-005109
Yoshida, G. A.
S6-000987
Yoshida, H.
S6-004300
Yoshida, M.
S6-002601
Yoshida, N.
S6-000082
Yoshida, T.
S6-003135
S6-004976
Yoshihara, K.
86-000505
86-000650
Yoshikawa, H.
86-001511

Yoshimizu, M.
86-004942
86-005017
86-005074
Yoshinaka, R.
86-000434
86-004027
Yoshio, J.
86-005557
Yoshioka, T.
86-003964
Yoshioka, Y.
86-001931
Yoshiyama, R. M.
86-004384
Yost, R.
86-005702
Youmans, N. B.
86-002133
Young, B. H.
86-002241
86-003051
Young, G.
86-000338
86-000435
86-004081
Young, P.
86-001899
Young, R.
86-002724
86-003355
Young, T. C.
86-003629
Youson, J. H.
86-001428
86-001531
86-002288
86-002317
86-002508
86-003814
Yousri, R.
86-001040
Yoza, K.
86-000505
86-000650
Yruretagoyena Ugalde, C.
86-004301
Yu, J. Y. L.
86-002577
Yuen, H. J.
86-003324
Yuge, J. E.
86-001136
Yuneva, T. V.
86-004082
Yunfei, W.
86-002876
Yur'ev, G. S.
86-004318
86-005630
Yuska, J. E.
86-004775
Yusupov, O.
86-002935
Yusupov, R. A.
86-005510
Yuuki, Y.
86-004302
Yuzhakova, G. G.
86-002729
Yuzhen, Y.
86-004101
Zaccone, G.
86-003165
86-003815

...CONTINUED...
Zaccone, G.
86-004083
86-004084
Zaccone, R.
86-004965
Zacharias, L. G.
86-003608
Zaderer, P.
86-004577
Zadunaisky, J.
86-002455
Zadunaisky, J. A.
86-002323
86-002565
86-002578
Zafer Khan, M.
86-000161
Zaferman, M. L.
86-005526
Zahary, R. G.
86-001137
Zajdel, R. K.
86-000999
86-003159
Zajdiner, Y. I.
86-001970
Zajicek, K. D.
86-001041
86-004138
Zaki, M. I.
86-004722
Zalepukhin, V. V.
86-003479
Zalesskikh, L. M.
86-004621
Zalewski, M.
86-003252
86-004781
Zama, K.
86-000401
86-000402
86-001398
86-002295
86-004051
Zambriborshch, F. S.
86-003356
Zandbergen, M. A.
86-001418
Zander, C. D.
86-004159
86-004622
86-004799
Zanuy, S.
86-001355
86-003850
Zanzottera, D.
86-001015
Zapata, A. G.
86-000861
Zaripov, B. R.
86-003620
Zarkua, Z. G.
86-004789
Zasel'sliy, V. S.
86-000564
Zaugg, B.
86-003409
Zaugg, W. S.
86-001523
86-004085
86-004086
Zaunreiter, M.
86-003816
Zava, B
86-002585

Zaytiev, A. K.
86-000549
Zbanyszek, R.
86-000436
Zdanovich, V. V.
86-001698
Zdanowicz, V. S.
86-003083
Zeiske, E.
86-003802
Zelinskiy, Y. P.
86-000469
Zelt, K. A.
86-001993
Zemora, O.
86-000085
Zenkevich, G. A.
86-000437
86-001400
Zerba, E.
86-003913
Zerbolio, D. J., Jr.
86-000513
Zettler, E. R.
86-003673
Zheltenkova, M. V.
86-001693
Zhiteneva, L. D.
86-004087
Zhou Tun
86-004123
Ziebell, C. D.
86-001243
86-002675
86-002809
86-004374
86-004485
86-004584
Zielinski, B. S.
86-002278
Zielinski, P. B.
86-002186
Zigterman, J. W. J.
86-000234
Zijlstra, J. J.
86-000812
86-004385
Ziolkoski, B.
86-002133
Zippel, H. P.
86-002509
Zischke, J. A.
86-001042
Ziskowski, J. J.
86-002975
Zitko, V.
86-000975
86-001987
86-003278
Zitnan, R.
86-001836
86-003052
86-003053
Ziyadeh, F. N.
86-002579
Zohar, G.
86-000086
86-002104
86-002166
86-003584
Zolotov, O. G.
86-002771
Zuckerman, L. D.
86-000554
Zuna, Z.
86-003283
Zweig, R. D.
86-002044

Africa
86-002790
86-003173
86-004830
86-004854
86-005357
Africa, Southern
86-004735
86-005348
Africa: Lake Kariba
86-004352
Africa: Lake Tanganyika
86-004278
86-004352
86-004373
86-004529
86-004560
86-004619
Africa: Lake Victoria
86-000108
86-001047
86-002623
86-004145
86-004913
Africa: Nile River
86-004387
Africa: West Africa: Gambia River
86-005431
Alabama
86-001158
86-001195
86-002033
86-003357
86-005205
Alabama: Alabama River
86-004111
Alabama: Chambers Cty. Public Fishing Lake
86-005455
Alabama: Coosa River
86-001093
86-001142
Alabama: Interior Low Plateau
86-000754
Alabama: Limestone Cty.: Pryor Spring
86-005480
Alabama: Tallapoosa River
86-001732
86-002703
Alabama: Tombigbee River
86-003358
Alabama: West Point Lake
86-004604
Alaska
86-000355
86-000516
86-000550
86-000931
86-000966
86-000970
86-000972
86-001073
86-001179
86-001187
86-001188
86-001239
86-001610
86-001749
86-001837
86-002049
86-003189
86-004157
86-004227
86-004441
86-004695

...CONTINUED...
Alaska
86-005164
86-005355
86-005366
86-005401
86-005412
86-005592
86-005701
Alaska: Auke Bay: Lynn Canal
86-000630
Alaska: Bristol Bay
86-003324
Alaska: Chena River
86-000497
86-000556
86-000573
86-000747
86-001149
86-005406
86-005430
86-005593
Alaska: Cook Inlet
86-000584
Alaska: Copper River
86-004419
Alaska: Kenai River
86-005586
Alaska: Kodiak Archipelago
86-001650
Alaska: Kuparuk Rivers
86-002201
Alaska: Pavlof Bay
86-001658
Alaska: Porcupine Creek
86-003645
86-003671
86-004203
86-004376
86-004541
86-005597
Alaska: Prudhoe Bay
86-004202
86-005535
Alaska: Sitka Eddy
86-004754
Alaska: Starrigavan Creek
86-005387
Alaska: Tanana River
86-000499
Alaska: Tenakee Inlet: Trap Bay Basin
86-005585
Antarctic
86-004537
86-004615
86-004814
Antarctic : Weddel Sea
86-004260
Antarctica
86-005115
Antarctica : McMurdo Sound
86-004777
Aral Sea
86-002935
Argentina
86-004711
Argentina: Chaco
86-004669
Arizona
86-002809
86-004126
86-004354
86-004407
86-004762
86-005338
86-005477

...CONTINUED...
Arizona
86-005600
Arizona: Alamo Lake
86-002675
86-004374
86-004475
Arizona: Colorado River
86-002642
86-005415
Arizona: Gila River
86-005476
Arizona: Grand Canyon
86-004274
Arizona: Lake Mohave
86-004423
Arizona: Lees Ferry
86-001153
Arkansas
86-000833
86-003298
86-004651
86-004691
Arkansas: Arkansas River
86-003184
Arkansas: Mississippi River
86-005403
Arkansas: Ouachita River Basin
86-004664
Asia
86-000826
86-003300
Atlantic Ocean
86-000885
86-001138
86-001141
86-001341
86-001344
86-001645
86-001758
86-002698
86-004796
Atlantic Ocean, East Central
86-001263
Atlantic Ocean, North
86-000157
86-000485
86-000575
86-000604
86-000633
86-000653
86-000682
86-000684
86-000723
86-000766
86-000780
86-000781
86-000808
86-000812
86-000838
86-000847
86-000887
86-000945
86-000961
86-001154
86-001265
86-001589
86-001590
86-001659
86-001661
86-001708
86-001710
86-001716
86-001726
86-001727
86-001746

...CONTINUED...
Atlantic Ocean, North
86-001773
86-001814
86-002004
86-002560
86-002693
86-002695
86-002699
86-002732
86-002739
86-002747
86-002791
86-002802
86-002847
86-002873
86-003004
86-003085
86-003199
86-003262
86-003346
86-003658
86-003665
86-003675
86-003735
86-004163
86-004188
86-004248
86-004253
86-004256
86-004261
86-004263
86-004276
86-004280
86-004308
86-004309
86-004320
86-004323
86-004379
86-004385
86-004464
86-004469
86-004470
86-004538
86-004539
86-004575
86-004578
86-004579
86-004620
86-004621
86-004625
86-004663
86-004671
86-004685
86-004703
86-004899
86-005136
86-005149
86-005166
86-005185
86-005190
86-005198
86-005204
86-005425
86-005461
86-005639
86-005649
86-005658
86-005667
86-005675
86-005678
86-005679
Atlantic Ocean, North: Bothnian Bay
86-000701
86-000706
86-000835

...CONTINUED...
Atlantic Ocean, North: Bothnian Bay
86-000860
86-000933
86-000935
Atlantic Ocean, North: Georges Bank
86-001619
86-005541
Atlantic Ocean, North: Gulf of Finland
86-004406
86-004758
Atlantic Ocean, North: Gulf of Maine
86-000727
86-003321
Atlantic Ocean, North: Irish Sea
86-001604
86-005121
Atlantic Ocean, North: New York Bight
86-000960
86-001133
86-001134
86-002833
86-002838
Atlantic Ocean, North: Newfoundland Basin
86-000769
Atlantic Ocean, North: Norfolk Canyon
86-002861
Atlantic Ocean, North: Rockall Trough
86-001679
Atlantic Ocean, North: Wadden Sea
86-000809
86-002707
Atlantic Ocean, Northeastern
86-004743
Atlantic Ocean, South
86-001268
86-001615
86-004761
86-004802
Atlantic Ocean, Southwestern
86-000652
Atlantic Ocean, West Central
86-001262
Atlantic Ocean, Western
86-001259
Atlantic Ocean: Atlantic Sahara
86-001343
Atlantic Ocean: South Atlantic Bight
86-000693
Australia
86-000824
86-001075
86-001112
86-001828
86-002814
86-002892
86-002992
86-003006
86-003209
86-003748
86-004400
86-004487
86-004599
86-004667
86-004686
86-004698
86-004715
86-004724
86-004790
86-004792
86-004817
86-004833
86-004837
86-004882
86-004883

...CONTINUED...
Australia
86-004903
86-005056
86-005085
86-005137
86-005473
86-005624
Australia: Brisbane
86-004229
Australia: Finke River
86-001819
Australia: Fraser Island
86-001960
Australia: Great Barrier Reef
86-000640
86-001622
86-001626
86-004218
86-004587
Australia: New South Wales: Lake Keepit
86-005424
Australia: New South Wales: Molonglo River
86-001859
Australia: Northern Territory: Alligator Rivers System
86-001389
Australia: Port Stephens
86-004705
Australia: Queensland: Moreton Bay
86-002011
86-004421
Australia: Tasmania
86-000534
86-000874
86-004631
Australia: Victoria
86-000777
Austria
86-001683
Austria: Danube River
86-004665
Austria: Lake Gossenkollesee
86-004577
Austria: Vienna
86-004224
Azov Sea
86-005418
Bahama Islands
86-001067
86-001086
86-001100
Baltic Sea
86-000577
86-000581
86-000585
86-000624
86-000847
86-001266
86-004344
86-004378
86-004507
86-005199
86-005652
86-005677
Barents Sea
86-000723
86-001589
86-004578
86-004621
Belgium: River Meuse
86-005224
Bering Sea
86-001212
86-002722

...CONTINUED...

Bering Sea
86-002884
86-004232
86-004234
86-004288
86-004298
86-004388
86-004425
86-004473
86-004742
86-004750
86-004756
86-004757
86-004928
86-005559
86-005625
86-005640
Bering Sea: Bay of Korf
86-000681
Bikini Atoll
86-004217
86-004457
Black Sea
86-002250
86-002709
86-003356
86-003617
86-003621
86-003622
86-003630
86-003636
86-003660
86-004318
86-004343
86-004593
86-004763
86-005630
Bolivia: Small Titicaca Lake
86-003283
Borneo
86-002905
Botswana: Lower Okavango Swamp
86-004713
Brazil
86-000844
86-001795
86-002902
86-003453
86-004481
86-004586
86-005116
86-005599
86-005644
Brazil: Amazon River
86-004662
Brazil: Americana Reservoir
86-005618
Brazil: Rio Aripuana
86-001777
Brazil: Rio Jequitinhonha
86-002917
Brazil: Rio Negro
86-004228
Brazil: Rio Tapajos
86-000839
British Columbia
86-001394
British Columbia: Queen Charlotte Islands
86-005405
British Columbia: Queen Charlotte Islands: Sangan River
86-002274
Bulgaria
86-003028
Burma
86-004889
California
86-000666
86-000757
86-000815
86-000911
86-001089
86-001094
86-001104
86-001108
86-001110
86-001136
86-001137
86-001197
86-001393
86-001583
86-001612
86-001616
86-001653
86-001660
86-001687
86-001691
86-003185
86-003187
86-003380
86-003381
86-003390
86-004197
86-004244
86-004254
86-004333
86-004384
86-004499
86-004582
86-004733
86-004738
86-004751
86-004773
86-004774
86-005349
86-005468
86-005605
California: A.D. Edmonston Pumping Plant
86-005528
California: California Current
86-002213
California: Carson River
86-002860
California: Channel Islands
86-000768
California: Channel Islands Natl. Park
86-004676
California: Clear Lake
86-004223
California: Dillon Beach
86-001586
86-002780
California: Don Pedro Reservoir
86-005350
California: Elkhorn Slough
86-001739
California: Folsom Lake
86-005437
California: Humboldt Bay
86-001620
86-004689
86-005673
86-005688
California: Humbolt Cty.: Trinidad Bay
86-002862
California: Lark Seep
86-004249
California: Martis Creek
86-004360

California: Monterey Bay
86-001098
86-001125
California: Owens River
86-004677
86-004678
California: Pacific Palisades
86-000778
California: Sacramento-San Jaoquin Estuary
86-001962
California: Sacramento-San Joaquin Delta
86-004728
California: Sacramento-San Joaquin Estuary
86-001741
86-003314
California: Salton Sea
86-001220
California: San Bernadino Cty.: Fort Soda
86-004655
California: San Diego Bay
86-001084
California: San Francisco Bay
86-000788
California: San Joaquin Valley
86-001596
86-003080
California: Shasta Cty.: Fall River
86-005604
California: Siskiyou Cty.: Lake Shastina
86-004367
California: South Fork Kings River
86-005453
California: Truckee River
86-002860
Canada
86-000817
86-001194
86-002846
86-003170
86-003639
86-003650
86-003672
86-004238
86-004319
86-004685
86-004721
86-005141
86-005162
86-005218
Canada: Alberta
86-001284
86-001608
86-001996
86-004316
86-005495
Canada: Alberta: Cold Lake
86-001990
Canada: Alberta: Edmonton
86-001991
Canada: Alberta: Gull Lake
86-001989
Canada: Alberta: Lesser Slave Lake
86-001993
Canada: Alberta: Prairie Creek
86-001723
Canada: Alberta: Sassenach Lake
86-004633
Canada: British Columbia
86-000355
86-000622
...CONTINUED...
Canada: British Columbia
86-001941
86-002211
86-002774
86-004416
86-004468
86-004697
86-004958
Canada: British Columbia: Babine Lake
86-004635
Canada: British Columbia: Campbell River Estuary
86-004272
Canada: British Columbia: Carnation Creek
86-005390
Canada: British Columbia: Fraser River
86-000607
86-000882
86-004365
86-004745
Canada: British Columbia: Hecate Strait
86-004780
Canada: British Columbia: Nanaimo River
86-002938
Canada: British Columbia: Nitinat River
86-000789
Canada: British Columbia: Queen Charlotte Islands
86-005220
86-005381
Canada: British Columbia: Queen Charlotte Islands: Sachs Creek
86-005394
Canada: British Columbia: Stikine River
86-000567
Canada: British Columbia: Vancouver Island
86-001605
Canada: Great Lakes
86-001218
Canada: Gulf of St. Lawrence
86-000750
Canada: Labrador
86-001712
86-003655
86-004308
86-004729
Canada: Labrador Shelf
86-005185
Canada: Manitoba
86-000572
86-001738
Canada: Manitoba: Heming Lake
86-000855
Canada: Manitoba: Lake Manitoba
86-004225
Canada: Manitoba: Lake Winnipeg
86-003286
Canada: Manitoba: Red River
86-004683
Canada: Manitoba: Winnepeg
86-004653
Canada: New Brunswick: Bay of Fundy
86-005384
Canada: New Brunswick: Miramichi River
86-004314
Canada: New Brunswick: Passamaquoddy Bay
86-000927
86-001850
86-003661
86-004557
Canada: Newfoundland
86-000615

...CONTINUED...
Canada: Newfoundland
86-000781
86-002708
86-004356
86-004703
86-005516
Canada: Newfoundland: Gander River
86-001621
Canada: Newfoundland: Wings Brook
86-004454
Canada: Northwest Territories
86-000631
86-002204
86-002214
86-002997
86-004636
Canada: Northwest Territories: Kakisa Lake
86-002736
Canada: Nova Scotia
86-000633
86-000975
86-001724
86-003656
Canada: Nova Scotia: Annapolis River
86-004201
Canada: Nova Scotia: Bay of Fundy
86-005384
Canada: Ontario
86-000121
86-000644
86-000920
86-001132
86-001140
86-001217
86-001235
86-001609
86-001854
86-002205
86-003087
86-003246
86-004245
86-004540
86-004554
86-004747
86-004958
86-005156
Canada: Ontario: Algonquin Park
86-000889
86-000890
Canada: Ontario: Chemung Lake
86-000574
Canada: Ontario: Dickson Lake
86-001635
Canada: Ontario: Experimental Lakes Area
86-000944
86-001479
86-003633
Canada: Ontario: Harp Lake
86-003637
Canada: Ontario: Henderson Lake
86-003288
Canada: Ontario: Lake Simcoe
86-000956
Canada: Ontario: Lake Temiskaming
86-003673
Canada: Ontario: Middle Thames River
86-004426
Canada: Ontario: Mud Lake
86-001872
Canada: Ontario: Opsley Creek
86-004393
Canada: Ontario: Ottawa
86-001718
...CONTINUED...
Canada: Ontario: Ottawa
86-001719
86-001720
Canada: Ontario: Turkey Lakes Watershed
86-000580
Canada: Ontario: Wabigoon River
86-005200
Canada: Ontario: Willand River
86-003010
Canada: Quebec
86-001301
86-002304
86-002881
Canada: Quebec: Koksoak River
86-003861
Canada: Quebec: Lac Choiniere
86-004494
Canada: Quebec: St. Lawrence Estuary
86-000647
86-000746
Canada: Quebec: St. Lawrence River
86-001853
Canada: Saskatchewan
86-002889
Canada: Saskatchewan: Cumberland Lake
86-002843
Canada: Saskatchewan: Prince Albert Natl. Park: Crean Lake
86-001617
Canada: Yukon
86-003666
Caribbean Sea
86-000813
86-002842
86-003781
86-004160
86-004551
86-004688
86-004741
86-004788
86-005097
86-005626
86-005653
86-005682
Caspian Sea
86-000699
86-001648
86-002867
86-004458
86-005656
Channel Islands: Jersey
86-004925
Chesapeake Bay
86-000696
86-000950
86-001251
86-001844
86-003313
86-004690
86-005621
Chile
86-000623
86-000625
86-000713
86-001731
86-001847
86-003014
86-003015
86-004295
86-005207
Chile: Talcahuano
86-000810
China
86-001846
86-003022

...CONTINUED...

China
86-004930
86-005109
China: Lake Donghu
86-004565
China: Sichuan
86-002903
China: South China Sea
86-004712
China: Xizang: Namjagbarwa
86-002876
China: Yunnan
86-001784
86-001788
Colombia
86-000737
86-000813
86-003781
86-004160
86-004330
86-004688
86-004741
Colombia: Malaga Bay
86-004731
Colorado
86-001147
86-001176
86-003311
86-004370
86-005450
86-005737
Colorado River
86-005337
Colorado River: Lees Ferry
86-001153
Colorado: Alamosa River
86-003190
Colorado: Boulder Cty.
86-002725
Colorado: Boulder Cty: Boulder Creek
86-003291
Colorado: Dillon Reservoir
86-001175
Colorado: Green River
86-004436
86-004710
Colorado: Gunnison Cty.: Cement Ck.
86-004479
Colorado: Gunnison River
86-002642
Colorado: Hinsdale Cty.: Emerald Lakes
86-001992
Colorado: Larimer Cty.: Sheep Creek
86-001246
Colorado: Platte River Basin
86-004725
Colorado: Twin Lakes
86-002215
86-005435
Colorado: Yampa River
86-004402
86-004436
86-004710
86-005104
Columbia River
86-001701
86-001998
86-004252
86-004534
86-005540
86-005603
Columbia River Estuary
86-002690
86-004709
Connecticut
86-002808
Connecticut River
86-000629
86-000793
86-001255
86-002713
86-004390
86-004465
Connecticut: Connecticut River
86-005529
Connecticut: Pawcatuck River
86-005093
Costa Rica
86-000687
86-002034
Cuba
86-002816
86-003478
86-004313
86-004559
86-004634
86-004660
86-004730
86-005642
86-005681
Czechoslovakia
86-003053
86-004442
86-005620
Czechoslovakia: Danube
86-004569
Czechoslovakia: Morava River Basin
86-000854
Czechoslovakia: Musov Reservoir
86-001704
Czechoslovakia: Ohre River
86-002852
Czechoslovakia: Vlara River
86-004640
Denmark
86-000335
86-004347
86-005595
East Africa
86-004800
East Africa: Rufiji River
86-002731
Easter Island
86-004825
Egypt
86-002081
86-004944
Egypt: Lake Brollus
86-003285
Egypt: Lake Mariut
86-004722
Enewetak Atoll
86-004217
86-004377
86-004457
England
86-000569
86-001600
86-002649
86-002711
86-002791
86-002873
86-002931
86-003003
86-003066
86-003256
86-003372
86-005397
86-005414
86-005587
England: Lake District
86-002716

England: Norfolk Broads
86-002723
England: Northamptonshire: River Nene
86-001711
England: River Tees: Cow Green
86-005383
England: River Thames
86-005077
England: River Trent
86-002848
England: Severn River Estuary
86-000520
86-002845
Europe
86-001606
86-004723
86-005647
Europe, Central
86-004154
Finland
86-000136
86-000157
86-000578
86-000589
86-000701
86-000706
86-000808
86-000835
86-000838
86-000860
86-000933
86-000935
86-000952
86-000953
86-000954
86-001226
86-001264
86-001266
86-001613
86-001870
86-001914
86-002955
86-004153
86-004247
86-004296
86-004581
86-005204
86-005393
86-005434
86-005483
86-005612
Finland: Gulf of Finland
86-000581
86-000624
86-004406
86-004623
86-004758
86-004767
86-004940
86-005190
86-005198
86-005203
86-005436
86-005484
Finland: Lake Inari
86-005576
86-005577
Finland: Lake Kuusvesi
86-004449
Finland: Lake Paijanne
86-005196
Finland: Lake Pyhajarvi
86-001230
86-005575
Finland: Lake Saimaa
86-001744

...CONTINUED...
Finland: Lake Saimaa
86-004336
Finland: Lake Suomunjarvi
86-004381
Finland: Lestijoki
86-004380
Finland: Porvoo
86-005690
Finland: River Vaikkojoki
86-005590
Florida
86-000002
86-000005
86-001055
86-001056
86-001069
86-001118
86-001120
86-001128
86-001143
86-001664
86-001686
86-001849
86-002599
86-002652
86-002685
86-002908
86-003247
86-003465
86-004253
86-004644
Florida: Apalachicola River
86-000563
Florida: Dade Cty.
86-001249
Florida: Escambia River
86-001177
Florida: Everglades
86-004701
Florida: Everglades Natl. Park
86-002798
Florida: Lake Okeechobee
86-003172
Florida: St. Johns River
86-001240
86-003172
86-003295
France
86-001161
86-001832
86-002046
86-002116
86-004351
86-004443
86-004626
86-004723
86-004726
France: Bay of Biscay
86-001639
86-004305
France: Elorn River
86-001593
France: Gironde Estuary
86-004445
France: Gulf of Lion
86-002818
86-004583
France: Lake Creteil
86-004331
France: Lake Leman
86-003391
France: Loire River
86-000599
France: Mauguio Lagoon
86-004366

France: Rance Estuary
86-002787
France: Rhone River
86-005583
Georgia
86-000473
86-000485
86-000575
86-003334
86-004912
Georgia: Conasauga River
86-001671
Georgia: Harris Cty.
86-005582
Georgia: Lake Lanier
86-003233
Georgia: Sapelo Island
86-002755
Georgia: Suwannee River
86-004510
Georgia: West Point Lake
86-004604
Georigia: Clarks Hill Reservoir
86-000722
Great Lakes
86-000480
86-000634
86-000641
86-000790
86-000801
86-001218
86-001221
86-001231
86-001753
86-001755
86-001965
86-001988
86-003224
86-003282
86-004412
86-004769
86-005188
86-005572
86-005579
Great Lakes: St. Clair-Detroit River System
86-004696
86-004714
Greece
86-002692
Greece: Saronic Gulf
86-002776
Greece: Saronikos Gulf
86-004279
Greenland
86-001581
Greenland: Lake Tasersuag
86-004210
Guam
86-002078
Gulf of Mexico
86-000682
86-000693
86-000714
86-000735
86-001087
86-001088
86-001138
86-001141
86-001254
86-001268
86-001625
86-001670
86-001792
86-003183

...CONTINUED...
Gulf of Mexico
86-003212
86-003214
86-004243
86-004290
86-005425
86-005427
86-005517
86-005657
Gulf of Mexico: Flower Garden Banks
86-001729
Gulf of St. Lawrence
86-001628
Hawaii
86-000774
86-001071
86-001091
86-002025
86-002097
86-002767
86-002837
86-004340
86-004395
86-004409
86-004410
86-004513
86-004543
86-004574
86-004591
86-004592
86-004596
86-004647
86-004657
86-004739
86-004740
86-005206
86-005273
86-005275
86-005439
86-005645
86-005646
86-005648
86-005655
86-005659
86-005662
86-005668
86-005672
86-005674
86-005685
86-005686
Honduras, Central
86-001740
Hungary
86-003384
86-003387
Hungary: Lake Balaton
86-001219
86-001690
86-003641
86-004601
Iceland
86-000653
Iceland: River Grimsa
86-005591
Idaho
86-001837
86-004673
86-005362
86-005440
86-005441
86-005482
Idaho: Bear Lake
86-004549
Idaho: Clearwater River
86-001561

Idaho: Henry's Fork
86-001950
Idaho: Henry's Fork Snake River
86-005438
Idaho: Lake Pend Oreille
86-002694
Idaho: Salmon River
86-003016
Illinois
86-000502
86-000525
86-000651
86-000676
86-001955
86-002584
86-004240
Illinois: Coles Cty.: Ridge Lake
86-003306
86-003307
Illinois: Illinois River
86-002831
Illinois: Interior Low Plateau
86-000754
Illinois: Johnson Cty.: Dutchman Ck.
86-004299
Illinois: Jordan Creek
86-000122
Illinois: Lake Shelbyville
86-004597
India
86-000033
86-000043
86-000045
86-000256
86-000784
86-002126
86-002985
86-003384
86-003387
86-003455
India: Andhra Pradesh
86-005118
India: Bay of Bengal
86-000738
India: Bhavanisagar Reservoir
86-005617
India: Bombay
86-001150
India: Calicut
86-001256
India: Kakinada
86-000557
86-001139
India: Karnataka
86-000745
India: Kashmir: Dal Lake
86-000700
India: Kota District
86-000779
India: Mandapam
86-000030
86-000055
86-000530
India: Nagarjunasagar Reservoir
86-005616
India: Palk Bay
86-000639
India: Rajasthan: Lakhotia Lake
86-000118
India: Rihand Reservoir
86-005615
India: River Jamuna
86-003054
India: Uttar Pradesh: Baigul Reservoir
86-004408
India: Vizhinjam
86-000548
India: Yamuna River
86-000937
Indian Ocean
86-000134
86-000161
86-000515
86-000528
86-000646
86-000758
86-000760
86-000925
86-001150
86-001204
86-001257
86-001260
86-001261
86-001826
86-002276
86-002696
86-002851
86-002866
86-002871
86-003720
86-004222
86-004267
86-004414
86-004933
86-005083
86-005087
86-005088
86-005117
86-005481
86-005631
86-005632
86-005637
86-005638
86-005669
Indian Ocean: Chagos Archipelago
86-004744
Indiana
86-002844
86-002921
86-004338
86-004383
86-004753
Indiana: Interior Low Plateau
86-000754
Indiana: LaPorte Cty.: Kingsbury State Fish Wildl. Area
86-002868
Indonesia
86-003383
Iowa
86-002863
86-003196
Iowa: Clear Lake
86-004311
Iowa: Dickinson Cty.: West Okoboji Lake
86-004459
Iran
86-005022
Iraq
86-002020
86-002190
Iraq: Tartar Reservoir
86-002217
Ireland
86-002923
Irian Jaya
86-004845
Irish Sea
86-001604
86-001661

...CONTINUED...
Irish Sea
86-002560
86-004309
86-004575
86-004625
86-005121
Israel
86-000038
86-000056
86-000057
86-000454
86-001282
86-001297
86-002028
86-002104
86-002227
86-003584
86-004317
Israel: Lake Kinneret
86-001668
86-001688
86-004803
Israel: River Jordan
86-001995
Italy
86-000814
86-002585
86-005050
86-005057
Italy: Lago di Annone
86-004501
Italy: Po River Delta
86-004250
Ivory Coast
86-002117
Japan
86-000153
86-000462
86-000505
86-000546
86-000547
86-000632
86-000638
86-000650
86-000703
86-000921
86-001107
86-001126
86-001310
86-002109
86-002720
86-002778
86-003253
86-003483
86-004135
86-004302
86-004375
86-004517
86-004732
86-004790
86-004892
86-005055
86-005129
86-005130
86-005409
86-005654
86-005664
86-005666
86-005676
Japan: Chicugo Estuary
86-001656
Japan: Chitose River
86-004418
Japan: Hokkaido: Assabu River
86-003729
Japan: Hokkaido: Ohno River
86-003747
Japan: Miyake-jima
86-001702
Japan: Mu River
86-002726
Japan: Sagami Bay
86-001654
86-004275
Japan: Saru River
86-002726
Japan: Sendai Bay
86-004523
Japan: Seto Sea
86-002829
86-002830
Japan: Shin Tone River
86-000592
Japan: Suo-nada
86-001700
Japan: Suruga Bay
86-002700
86-002738
86-004544
Japan: Tama River
86-001636
Japan: Tokachi River
86-003397
86-003398
Japan: Tosa Bay
86-000763
Japan: Wakasa Bay
86-000685
86-004461
Japan: Yurappu River
86-004266
Johnston Atoll
86-002735
Jordan: Aqaba
86-000708
Kansas
86-000798
86-003312
86-004095
Kansas: Lone Star Lake
86-004572
Kentucky
86-000582
86-000588
86-002633
Kentucky: Buck Creek
86-000755
Kentucky: Clarks River
86-001728
Kentucky: Herrington Lake
86-002836
86-003234
Kentucky: Interior Low Plateau
86-000754
Kentucky: Ohio River
86-003210
Kentucky: Rolling Fork
86-001722
Kenya: Lake Nakuru
86-004032
Korea
86-004118
Kuwait
86-000054
86-001083
86-001839
86-002105
86-002689
86-002728
86-002730

...CONTINUED...
Kuwait
86-002835
86-003205
86-003206
86-003216
86-003342
86-004359
Lake Erie
86-000668
86-000968
86-001115
86-001342
86-001549
86-001663
86-001975
86-002797
86-003029
86-003289
86-004361
86-004371
86-004752
Lake Erie: Long Point Bay
86-001748
Lake Huron
86-000576
86-000739
86-001737
86-005126
Lake Michigan
86-000120
86-000566
86-000590
86-000645
86-000672
86-000676
86-000683
86-000800
86-000804
86-000805
86-000936
86-001080
86-001102
86-001103
86-001222
86-001224
86-001228
86-001737
86-001957
86-002202
86-003101
86-003657
86-004353
86-004500
86-004536
86-004542
86-005538
86-005578
Lake Michigan: Green Bay
86-001001
86-001208
86-001223
Lake Ontario
86-000657
86-000852
86-000964
86-000974
86-001090
86-001101
86-002765
86-002879
86-003070
86-003217
86-004363
86-004680
Lake Superior
86-000602

...CONTINUED...
Lake Superior
86-000662
86-001168
86-002208
86-002706
86-003195
86-003634
86-005126
Lake Tanganyika
86-004278
86-004373
86-004529
86-004560
86-004619
Laos: Nam Ngum Reservoir
86-004486
Lebanon
86-003039
86-004532
Liberia
86-004890
Louisiana
86-000946
86-001625
86-002067
86-002077
86-002088
86-002203
86-002599
86-002769
86-004243
Louisiana: Bayou Sara
86-002683
Louisiana: Grand Isle
86-002855
Louisiana: Henderson Lake
86-005404
Madagascar
86-004281
Maine
86-000951
86-001105
86-001750
86-003292
86-005364
Maine: Gulf of Maine
86-000727
86-001945
Maine: Hancock Cty.: Green Lake
86-001225
Maine: Kennebec River
86-003197
Maine: Penobscot River
86-001657
Malawi: Lake Chilwa
86-004699
Malawi: Lake Malawi
86-000667
86-001171
86-001678
86-002912
86-004417
86-004874
Malaysia
86-000021
86-001840
86-002810
86-002907
86-003383
86-004297
Malaysia: Kwala Lumpur: Zoo Negara Lake
86-004386
Malaysia: Pulau Penang
86-001796
Mariana Islands
86-005670

Marshall Islands
86-004217
86-004377
86-004457
86-004727
Marshall Islands: Enewetak Atoll
86-001632
Maryland
86-001856
86-001857
Maryland: Chesapeake Bay
86-001251
Maryland: Nanticoke River
86-000950
Massachusetts
86-003302
86-005581
Massachusetts: Great Sippewisett Marsh
86-004613
Massachusetts: Taylor Brook
86-005215
Mediterranean Sea
86-000529
86-000595
86-000783
86-001127
86-001258
86-001832
86-001858
86-002282
86-002585
86-002818
86-004317
86-004329
86-004605
86-004622
86-004706
86-004743
86-004801
86-005095
86-005433
86-005451
Mediterranian Sea
86-001716
86-004306
86-005643
Mexico
86-001764
86-001775
86-002705
86-002850
Mexico: Baja California
86-004301
Mexico: Baja California: Colorado River
86-004666
Mexico: Baja California: Laguna Salada
86-004675
Mexico: Chihuahua
86-004107
86-005359
Mexico: Cuatro Cienegas
86-000545
Mexico: Gulf of Mexico
86-002742
Mexico: Jalapa
86-004159
Mexico: Laguna Chichancanab
86-004114
Mexico: Lake Chapala
86-003684
Mexico: Mesa Central
86-004815
Mexico: Nuevo Leon: Cadereyta Jimenez
86-005217
Mexico: Sonora
86-004354
Mexico: Sonora: Rancho la Brisca
86-001785
Mexico: Southern California
86-003347
86-004736
Michigan
86-000598
86-001144
Michigan; Hunt Cr.
86-003290
Michigan: Au Sable River
86-004326
86-005444
Michigan: Chippewa Cty.: St. Mary's River
86-002853
Michigan: Crawford Cty.: Au Sable River
86-001797
Michigan: Detroit River
86-000968
Michigan: Lake St. Clair
86-000968
Michigan: Manitoulin Lakes
86-004692
Michigan: Menominee River
86-001247
Michigan: Montmorency Cty.: Fuller Pond
86-005471
Middle East
86-002022
86-002023
Minnesota
86-002643
86-003211
Minnesota: Lake Itasca
86-004614
Minnesota: South Branch Creek
86-004362
Mississippi
86-000026
86-001303
86-002686
86-003431
86-004403
Mississippi River
86-000519
86-000806
86-001189
86-004453
86-004471
86-004760
86-005403
Mississippi River, Upper
86-000542
Mississippi: Buffalo River
86-001717
Mississippi: Homochitto River
86-001717
Mississippi: Little Tallahatchie River
86-001598
Missouri
86-000833
86-005363
Missouri: Missouri River
86-000636
Montana
86-001947
86-004765
86-005209
86-005454
86-005584
Montana: Big Hole River
86-004682
Montana: Flathead River
86-002206

Montana: Kootenai River
86-002206
86-002762
Montana: Madison River
86-005488
Montana: Missoula Cty.: Gold Creek
86-001130
Morocco
86-002030
Nebraska
86-001552
86-002870
Netherlands
86-003085
86-005221
Netherlands: Tjeukemeer
86-004611
Nevada
86-004294
Nevada: Ash Meadows
86-000811
Nevada: Gance Creek
86-000832
Nevada: Lahontan Lake
86-000669
Nevada: Lake Mohave
86-004423
Nevada: Walker Lake
86-004242
Nevada: White River
86-000792
86-001934
New England
86-005623
New Guinea
86-004845
86-004846
New Hampshire
86-001943
86-005160
New Jersey
86-002026
86-003201
86-003336
New Jersey: Raritan Bay
86-003337
86-003339
86-003354
New Jersey: Round Valley Reservoir
86-002198
New Mexico
86-004126
New Mexico: Pecos River
86-000535
New Mexico: San Juan River
86-002642
New York
86-001145
86-001963
86-001964
86-005442
New York: Adirondack Mtns.
86-005163
86-005210
New York: Albany: Tivoli Lakes Urban Wildlife Park
86-005187
New York: Black Lake
86-002737
New York: Hudson River
86-002820
86-005093
New York: Hudson River Estuary
86-000526
New York: Lake Champlain
86-000736

...CONTINUED...
New York: Lake Champlain
86-002758
New York: Long Island
86-003057
New York: Long Island Sound
86-004566
New York: New York Bight
86-000960
New York: Niagara River
86-001148
86-003070
New Zealand
86-000034
86-000165
86-000796
86-000821
86-000822
86-001372
86-001778
86-003049
86-004358
86-004661
86-004720
86-004790
86-004792
86-004876
86-005473
86-005624
New Zealand: Ashley River
86-004589
New Zealand: Campbell Plateau
86-000660
86-000661
New Zealand: Canterbury: Lake Ellesmere
86-001685
New Zealand: Hawke Bay
86-001275
New Zealand: Kaikoura
86-002849
New Zealand: Pauatahanui Inlet
86-001725
New Zealand: Porirua Inlet
86-001725
New Zealand: Rakaia River
86-004293
86-004772
New Zealand: Rangitikei River
86-000637
New Zealand: Smith Island
86-003032
New Zealand: Waitaki River
86-001655
Nigeria
86-003430
Nigeria: Kano State: Tiga Lake
86-004289
Nigeria: Lake Kainji
86-003280
Nigeria: Sokoto-Rima River
86-002781
Nile River
86-004387
North America
86-000126
86-000762
86-001057
86-001356
86-001357
86-001765
86-001766
86-001999
86-002257
86-002465
86-005079
North Carolina
86-001096

...CONTINUED...
North Carolina
86-001710
86-002599
86-002834
86-003218
North Carolina: Chowan River
86-001582
86-005128
North Carolina: Lake Norman
86-000643
North Dakota
86-002930
North Dakota: Devils Lake
86-005423
North Sea
86-000812
86-000945
86-000961
86-001265
86-003004
86-005082
86-005461
Northern Ireland
86-001944
86-001959
86-002589
86-004194
Norway
86-000705
86-000967
86-002828
86-003363
86-003665
86-004277
86-004323
86-004342
86-004462
86-004490
86-004547
86-004637
86-004967
86-005110
86-005222
Norway: Lake Gjersjoen
86-003626
Norway: Lake Selura
86-001692
Norway: River Nidelva
86-001949
Norway: Vangsvatnet Lake
86-001673
Ohio
86-000113
86-000775
86-001250
86-001735
86-001975
Ohio River
86-001842
Ohio river
86-003210
Ohio: Pike Cty.: Scioto River
86-000776
Ohio: Richland Cty.: Clear Fork
86-003143
Ohio: Richland Cty.: Rocky Fork
86-003143
Ohio: Sandusky River
86-002875
Oklahoma
86-001591
86-001603
86-002812
86-002872
86-003239

...CONTINUED...
Oklahoma
86-003297
86-005429
Oklahoma: Beaver Cty.
86-002865
Oklahoma: Delaware Cty.: Flint Creek
86-004606
Oklahoma: Harper Cty.
86-002865
Oklahoma: Lake Carl Blackwell
86-002199
Oklahoma: Lake Texoma
86-003310
Oman
86-003204
Oregon
86-000594
86-001050
86-001172
86-001662
86-001715
86-001736
86-002727
86-003023
86-004197
86-005474
Oregon: Columbia River
86-004534
86-005540
Oregon: Lane Cty.: Grasshopper Creek
86-004616
Oregon: Rogue River
86-000924
Oregon: Sixes River
86-004646
Oregon: Snake River
86-005540
Oregon: Tobe Ck.
86-003191
Oregon: Winchester Bay
86-000761
Pacific Ocean
86-000137
86-000527
86-000560
86-000568
86-000591
86-000623
86-000625
86-000632
86-000642
86-000646
86-000666
86-000713
86-000757
86-000759
86-000761
86-000768
86-000773
86-000774
86-000778
86-000794
86-000822
86-000885
86-000931
86-001066
86-001091
86-001098
86-001108
86-001113
86-001137
86-001194
86-001204
86-001257
86-001341

Montana: Kootenai River
86-002206
86-002762
Montana: Madison River
86-005488
Montana: Missoula Cty.: Gold Creek
86-001130
Morocco
86-002030
Nebraska
86-001552
86-002870
Netherlands
86-003085
86-005221
Netherlands: Tjeukemeer
86-004611
Nevada
86-004294
Nevada: Ash Meadows
86-000811
Nevada: Gance Creek
86-000832
Nevada: Lahontan Lake
86-000669
Nevada: Lake Mohave
86-004423
Nevada: Walker Lake
86-004242
Nevada: White River
86-000792
86-001934
New England
86-005623
New Guinea
86-004845
86-004846
New Hampshire
86-001943
86-005160
New Jersey
86-002026
86-003201
86-003336
New Jersey: Raritan Bay
86-003337
86-003339
86-003354
New Jersey: Round Valley Reservoir
86-002198
New Mexico
86-004126
New Mexico: Pecos River
86-000535
New Mexico: San Juan River
86-002642
New York
86-001145
86-001963
86-001964
86-005442
New York: Adirondack Mtns.
86-005163
86-005210
New York: Albany: Tivoli Lakes Urban Wildlife Park
86-005187
New York: Black Lake
86-002737
New York: Hudson River
86-002820
86-005093
New York: Hudson River Estuary
86-000526
New York: Lake Champlain
86-000736

...CONTINUED...
New York: Lake Champlain
86-002758
New York: Long Island
86-003057
New York: Long Island Sound
86-004566
New York: New York Bight
86-000960
New York: Niagara River
86-001148
86-003070
New Zealand
86-000034
86-000165
86-000796
86-000821
86-000822
86-001372
86-001778
86-003049
86-004358
86-004661
86-004720
86-004790
86-004792
86-004876
86-005473
86-005624
New Zealand: Ashley River
86-004589
New Zealand: Campbell Plateau
86-000660
86-000661
New Zealand: Canterbury: Lake Ellesmere
86-001685
New Zealand: Hawke Bay
86-001275
New Zealand: Kaikoura
86-002849
New Zealand: Pauatahanui Inlet
86-001725
New Zealand: Porirua Inlet
86-001725
New Zealand: Rakaia River
86-004293
86-004772
New Zealand: Rangitikei River
86-000637
New Zealand: Smith Island
86-003032
New Zealand: Waitaki River
86-001655
Nigeria
86-003430
Nigeria: Kano State: Tiga Lake
86-004289
Nigeria: Lake Kainji
86-003280
Nigeria: Sokoto-Rima River
86-002781
Nile River
86-004387
North America
86-000126
86-000762
86-001057
86-001356
86-001357
86-001765
86-001766
86-001999
86-002257
86-002465
86-005079
North Carolina
86-001096

...CONTINUED...
North Carolina
86-001710
86-002599
86-002834
86-003218
North Carolina: Chowan River
86-001582
86-005128
North Carolina: Lake Norman
86-000643
North Dakota
86-002930
North Dakota: Devils Lake
86-005423
North Sea
86-000812
86-000945
86-000961
86-001265
86-003004
86-005082
86-005461
Northern Ireland
86-001944
86-001959
86-002589
86-004194
Norway
86-000705
86-000967
86-002828
86-003363
86-003665
86-004277
86-004323
86-004342
86-004462
86-004490
86-004547
86-004637
86-004967
86-005110
86-005222
Norway: Lake Gjersjoen
86-003626
Norway: Lake Selura
86-001692
Norway: River Nidelva
86-001949
Norway: Vangsvatnet Lake
86-001673
Ohio
86-000113
86-000775
86-001250
86-001735
86-001975
Ohio River
86-001842
Ohio river
86-003210
Ohio: Pike Cty.: Scioto River
86-000776
Ohio: Richland Cty.: Clear Fork
86-003143
Ohio: Richland Cty.: Rocky Fork
86-003143
Ohio: Sandusky River
86-002875
Oklahoma
86-001591
86-001603
86-002812
86-002872
86-003239

...CONTINUED...
Oklahoma
86-003297
86-005429
Oklahoma: Beaver Cty.
86-002865
Oklahoma: Delaware Cty.: Flint Creek
86-004606
Oklahoma: Harper Cty.
86-002865
Oklahoma: Lake Carl Blackwell
86-002199
Oklahoma: Lake Texoma
86-003310
Oman
86-003204
Oregon
86-000594
86-001050
86-001172
86-001662
86-001715
86-001736
86-002727
86-003023
86-004197
86-005474
Oregon: Columbia River
86-004534
86-005540
Oregon: Lane Cty.: Grasshopper Creek
86-004616
Oregon: Rogue River
86-000924
Oregon: Sixes River
86-004646
Oregon: Snake River
86-005540
Oregon: Tobe Ck.
86-003191
Oregon: Winchester Bay
86-000761
Pacific Ocean
86-000137
86-000527
86-000560
86-000568
86-000591
86-000623
86-000625
86-000632
86-000642
86-000646
86-000666
86-000713
86-000757
86-000759
86-000761
86-000768
86-000773
86-000774
86-000778
86-000794
86-000822
86-000885
86-000931
86-001066
86-001091
86-001098
86-001108
86-001113
86-001137
86-001194
86-001204
86-001257
86-001341

...CONTINUED...

Pacific Ocean
86-001344
86-001348
86-001372
86-001583
86-001597
86-001602
86-001605
86-001612
86-001616
86-001618
86-001620
86-001653
86-001658
86-001660
86-001662
86-001674
86-001687
86-001691
86-001695
86-001703
86-001715
86-001736
86-001768
86-001776
86-001828
86-001974
86-002000
86-002001
86-002003
86-002007
86-002008
86-002009
86-002010
86-002012
86-002211
86-002245
86-002691
86-002718
86-002720
86-002722
86-002727
86-002756
86-002761
86-002763
86-002767
86-002774
86-002810
86-002837
86-002854
86-002857
86-002858
86-002893
86-002904
86-002910
86-002911
86-003023
86-003071
86-003293
86-003316
86-003318
86-003347
86-003351
86-003619
86-003759
86-004197
86-004217
86-004218
86-004226
86-004244
86-004268
86-004269
86-004270
86-004340
86-004368

...CONTINUED...

Pacific Ocean
86-004395
86-004409
86-004410
86-004444
86-004457
86-004513
86-004543
86-004552
86-004553
86-004574
86-004591
86-004592
86-004596
86-004647
86-004657
86-004674
86-004695
86-004700
86-004716
86-004721
86-004733
86-004736
86-004738
86-004740
86-004751
86-004764
86-004766
86-004773
86-004784
86-004791
86-004844
86-004845
86-004847
86-004848
86-004949
86-005127
86-005136
86-005140
86-005207
86-005273
86-005275
86-005439
86-005628
86-005629
86-005631
86-005636
86-005638
86-005645
86-005646
86-005648
86-005655
86-005659
86-005662
86-005668
86-005672
86-005674
86-005685
86-005686
Pacific Ocean, Southeastern
86-002864
Pacific Ocean: Aleutian Basin
86-004300
Pacific Ocean: Bay of Korf
86-000681
Pacific Ocean: California Current
86-002213
Pacific Ocean: Great Barrier Reef
86-001622
86-001626
Pacific Ocean: Hawaii
86-000463
Pacific Ocean: Sitka Eddy
86-004754
Pacific Ocean: South China Sea
86-000541

...CONTINUED...
Pacific Ocean: South China Sea
86-000549
Pacific Ocean: Strait of Georgia
86-002006
Pakistan: Kabri Lake
86-005081
Pakistan: Sind: Kalri Lake
86-005114
Papua New Guinea
86-000603
86-001713
86-002704
86-005125
Papua New Guinea: Sepik River
86-001994
Paraguay
86-000840
86-001787
Pennsylvania
86-002715
86-003296
86-005345
Pennsylvania: Cumberland Cty.: Letort Spring Run
86-004679
Peru
86-001695
86-002854
86-004902
Peru: Andes
86-004525
Peru: Lake Sauce
86-004659
Philippines
86-000465
86-002759
86-003386
86-003412
86-003413
86-004355
86-004921
Philippines: Lake Lanao
86-004859
Poland
86-002821
86-003252
86-003800
86-004335
86-004654
86-004914
86-004915
86-005478
Poland: Lake Warniak
86-002710
Poland: Oder River
86-004094
Poland: River Dunajec
86-002840
86-002869
86-004617
Poland: River Nysa Klodzka
86-002874
Poland: River Peczora
86-002901
Poland: Vistula River
86-005376
Portugal
86-000751
86-004956
Portugal: Lagoon of Aveiro
86-003075
Potomac River
86-004702
Puerto Rico
86-000823

...CONTINUED...
Puerto Rico
86-000913
86-001584
86-005097
Puerto Rico: Laguna Joyuda
86-004737
Puget Sound
86-002010
Red Sea
86-003315
86-004681
86-004800
Rhode Island
86-002770
Rhode Island: Hamilton Reservoir
86-004610
Rhode Island: Narragansett Bay
86-000764
Rhode Island: Pawcatuck River
86-005093
River Jordan
86-001995
Romania: Danube River
86-005375
Sargasso Sea
86-001743
Saudi Arabia
86-002021
86-003315
Scotland
86-002882
86-003044
86-004258
Seychelles Islands
86-004704
Sierra Leone: Taia River
86-002731
Singapore
86-001293
86-002112
South Africa
86-000518
86-000606
86-000695
86-000709
86-000892
86-001684
86-001758
86-001774
86-002090
86-002091
86-002092
86-002680
86-002800
86-004595
86-004835
86-004951
86-005041
South Africa: Boskop Dam
86-003048
South Africa: Hartbeespoort Dam
86-004169
86-004502
South Africa: Kei River Estuary
86-001733
South Africa: Lake le Roux
86-004755
South Africa: Lake Sibayi
86-004820
South Africa: Mgobozeleni Lake
86-004670
South Africa: Natal
86-001232
86-002717
86-002751

South Africa: Swartvlei
86-005580
South Africa: Transvaal
86-000765
86-001823
South Africa: Tyume River
86-004251
South Africa: Zambezi River
86-004894
South America
86-000782
86-001742
86-002924
South Carolina
86-000162
86-001267
86-003334
86-004672
South Carolina: Charleston Harbor
86-000732
South Carolina: Chesterfield Cty.: Carolina Sandhills Natl. Wildl. Refuge
86-004717
South Carolina: Cooper River
86-001237
86-002925
South Carolina: Jocassee Reservoir
86-001169
South Carolina: Santee River
86-001237
South Carolina: Wee Tee Lake
86-000770
South China Sea
86-004712
86-005636
South Dakota
86-000001
South Dakota: Cheyene River
86-005212
South Dakota: Pennington Cty.: Slate Creek
86-005400
South Dakota: Rapid City: Rapid Creek
86-005388
Spain
86-000881
86-003749
86-004349
86-005024
Spain: Duero Basin
86-005023
Sri Lanka
86-001315
86-001587
86-004230
86-004265
86-004472
Sudan: Dinder Natl. Park
86-002859
Sweden
86-000635
86-002804
86-003078
86-004257
86-004460
86-004778
86-005395
86-005469
Switzerland: Lake Constance
86-001541
86-003544
86-003787
86-004516
86-005486
Switzerland: Lake Geneva
86-003957
86-005470
Switzerland: Lake Joux
86-004391
86-004546
Switzerland: Lake Neuchatel
86-003409
86-004364
Switzerland: Lake Sarnen
86-005479
Switzerland: Lake Thun
86-004345
Syria
86-000155
86-000767
86-000827
Taiwan
86-001079
86-001302
86-002029
86-003007
86-005013
86-005015
Tasmania
86-000533
Tennessee
86-000558
86-000753
86-003220
Tennessee River
86-004437
Tennessee: Cherokee Reservoir
86-000691
Tennessee: Conasauga River
86-001671
Tennessee: Great Smoky Mountains Natl. Park: Spruce Flats Branch
86-000710
Tennessee: Great Smoky Mtns. Natl. Park: Little River
86-003213
Tennessee: Interior Low Plateau
86-000754
Tennessee: Little Tennessee River
86-003813
Tennessee: Reelfoot Lake
86-003207
Texas
86-000688
86-001170
86-002072
86-002121
86-002721
86-002850
86-003183
86-003212
86-003214
86-003238
86-003308
86-005432
Texas: Freestone Cty.
86-000976
Texas: Galveston Bay
86-002027
86-005427
Texas: Kerr Cty.: Fessenden Spring
86-000626
Texas: Lake Mackenzie
86-000503
Texas: Lake Texoma
86-003310
Texas: San Marcos River
86-002807
Thailand
86-000037

...CONTINUED...
Thailand
86-000457
86-002914
86-002919
86-002998
86-003382
86-003383
86-003474
Tibet: Qinghai-Xizang Plateau
86-005191
Trinidad
86-005683
Tunisia
86-002106
86-004346
Turkey
86-000827
United Kingdom
86-003219
86-003262
United States
86-001281
86-001868
86-001938
86-002012
86-003250
86-004684
86-004707
86-005015
86-005055
86-005613
86-005619
United States, North Central
86-003077
United States, Northeastern
86-003065
86-003292
86-005169
86-005609
United States, Northwest
86-003169
United States, Southeastern
86-005452
United States, Southwestern
86-005360
United States: Mississippi River
86-000519
Uruguay
86-003892
USSR
86-000694
86-000772
86-000846
86-000849
86-000859
86-001291
86-001871
86-002250
86-002771
86-002878
86-003373
86-003750
86-004344
86-004916
86-004927
86-005040
USSR: Amur River
86-002697
USSR: Dagestan: Arakum Reservoirs
86-000686
USSR: Dnieper Reservoir
86-003893
USSR: Dnieper-Bug Estuary
86-000551
USSR: Don River
86-001752
...CONTINUED...
USSR: Don River
86-003775
USSR: Gulf of Finland
86-004280
USSR: Ivan'kovo Reservoir
86-005380
USSR: Kamchatka
86-000466
86-000702
86-002805
USSR: Kamchatka River
86-000720
86-003690
USSR: Kamchatka: Ozernaya River
86-002409
USSR: Kremenchug Reservoir
86-004641
USSR: Kuban River
86-001946
USSR: Lake Baikal
86-002389
86-002746
USSR: Lake Chukcha
86-002701
USSR: Lake Ladoga
86-004246
USSR: Lake Sartlan
86-004937
USSR: Latvia
86-002928
USSR: Mozhaysk Reservoir
86-000539
86-004580
USSR: Okhotsk Sea
86-002688
USSR: Omsk
86-004926
USSR: Rioni River
86-004789
USSR: River Tom
86-004918
USSR: Rybinsk Reservoir
86-004206
USSR: Sakhalin
86-004411
86-004431
USSR: Sea of Azov
86-001747
86-001970
USSR: Sevan
86-002729
USSR: Shanter Islands
86-000124
USSR: Southern Primorye
86-001585
USSR: Tyumen
86-004931
86-004934
86-004935
USSR: Ural River
86-001760
USSR: Ust'Ilimskoe Reservoir
86-000540
USSR: Volga Delta
86-002684
USSR: Volga River
86-001757
86-001759
86-001968
USSR: White Sea
86-004480
Utah
86-004129
Utah: Bear Lake
86-004549

Abramis ballerus
Early Development
86-000177
Abramis brama
Abundance/Factors of
86-000539
Age/Growth
86-003276
86-004638
86-004641
ATP
86-003958
Digestive System
86-002449
Electrophoresis
86-002600
Embryology
86-002240
Enzymes
86-002449
86-003958
Foods/Feeding
86-004545
Foods/Feeding/Selectivity
86-004516
Hybridization
86-004094
Impoundment
86-004638
Length-Weight Relationships
86-002841
Life History/General
86-000539
Liver
86-001871
Management/Research--General
86-003276
Management/Research--Marine
86-001970
Mortality Rates
86-003276
Musculature
86-003958
Nitrogen Metabolism
86-002537
Population Studies
86-003276
Predator/Prey Relationships
86-000679
86-001690
Recruitment
86-003276
Sexual Dimorphism
86-004641
Skeletal System
86-002250
Stocking/Introductions
86-001970
Supplemental Stocking
86-001970
Temperature
86-002240
86-002537
Thermal Pollution
86-001871
Trophic Relationships
86-000679
86-001690
86-004601
Variation Studies
86-002250
Abudefduf caeruleolineatus
New Species
86-004784
Abudefduf starcki
New Species
86-004784
Acanthochromis polyacanthus
Aggressive Behavior
86-004221
Acanthoclinidae
Taxonomy
86-000822
Acanthoclinus fuscus
Locomotion
86-002638
Acanthocybium solandri
Foods/Feeding
86-004543
Acanthomorpha
Taxonomy
86-002913
Acanthopagrus
Bomolochidae
86-003005
Ergasilus
86-003006
Parasites/Diseases
86-001828
86-003005
86-003006
Parasitic Copepods
86-003005
86-003006
Trematodes
86-001828
Acanthopagrus australis
Austrobdella bilobata
86-005137
Blood Chemistry
86-002504
Gill Parasites
86-005138
Inflammatory Response
86-002504
Leeches
86-005137
Parasites/Diseases
86-005137
86-005138
Parasitic Copepods
86-005138
Trematodes
86-005138
Acanthopagrus berda
Argulus
86-005085
Parasites/Diseases
86-005085
Parasitic Copepods
86-005085
Acanthopagrus cuvieri
Commercial Fishing
86-003342
Creel Census
86-003342
Culture/Propagation
86-002103
86-002105
Egg Collection
86-002105
Fingerling Production
86-002105
Harvest
86-003342
Management/Research--Marine
86-003342
Tank Culture
86-002103
Acanthopagrus latus
Argulus
86-005085

...CONTINUED...
Acanthopagrus latus
Culture/Propagation
86-002105
Egg Collection
86-002105
Fingerling Production
86-002105
Parasites/Diseases
86-005085
Parasitic Copepods
86-005085
Population Studies
86-002730
Acanthoplesiops psilogaster
New Species
86-000822
Acanthuridae
Reef Fish Communities
86-004550
Trophic Relationships
86-004550
Acanthuroidei
Early Development
86-004862
Taxonomy
86-004862
Acestrorhynchinae
Karyotypes
86-001529
Acheilognathus rhombea
Endocrinology
86-000383
Reproduction
86-000383
Acipenser
Electrophoresis
86-002608
Acipenser baeri
Culture/Propagation
86-001316
Diets
86-001316
Embryology
86-003934
Feeding Experiments
86-001316
Metabolic Rates
86-003934
Acipenser brevirostrum
Culture/Propagation
86-002128
Habitat Selection
86-004390
Management/Research--General
86-002128
Movements
86-000629
Spawning
86-004390
Acipenser fulvescens
Culture/Propagation
86-000020
Early Development
86-000178
Lamprey Parasitism
86-001853
Management/Research--Lakes
86-005573
Management/Research--Rivers and Streams
86-001247
Parasites/Diseases
86-001853
Population Studies
86-001247

...CONTINUED...
Acipenser fulvescens
Temperature
86-000178
Acipenser gueldenstaedti
Abundance/Factors of
86-001752
Biochemical Composition
86-001288
Culture/Propagation
86-001288
86-001289
86-001311
86-002094
Distribution/Factors of
86-002867
Endocrinology
86-001400
Feeding Experiments
86-001311
Feeds
86-001311
Flow Regimes
86-001752
Hormones
86-001400
Inbreeding
86-001289
Metabolic Rates
86-001395
Pond Culture
86-001288
86-002094
Respiration
86-001395
Salinity
86-002867
Spawning
86-001752
Temperature
86-002867
Acipenser oxyrhynchus
Cell Culture
86-002451
Culture/Propagation
86-002128
Life History/General
86-000526
86-001057
Management/Research--Estuaries
86-000526
Management/Research--General
86-001057
86-002128
Movements
86-000526
Acipenser oxyrhynchus desotoi
Exploitation Rates
86-000563
Habitat Selection
86-000563
Life History/General
86-000563
Management/Research--Rivers and Streams
86-000563
Meristic Studies
86-003810
Movements
86-000563
Taxonomy
86-003810
Variation Studies
86-003810
Acipenser persicus colchicus
Taxonomy
86-004789

Acipenser ruthenus
Ependyma
86-003741
Hypothalamic-Hypophyseal System
86-000198
86-000300
Karyotypes
86-004140
Nervous System
86-003741
Acipenser stellatus
Brood Stock
86-001290
Culture/Propagation
86-001290
86-002094
Embryology
86-002244
Endocrinology
86-001400
Hormones
86-001400
Meristic Studies
86-003775
Pond Culture
86-002094
Temperature
86-002244
Acipenser transmontanus
Adenoviridídae
86-000899
Adenovirosis
86-005050
Age/Growth
86-002066
Amino Acids
86-000399
Blood Chemistry
86-000399
Culture/Propagation
86-002066
86-002068
86-003443
86-003561
Diets
86-003561
Digestive System
86-001408
86-002312
Early Development
86-000178
Economics
86-002068
Egg Quality
86-003443
Electrophoresis
86-004091
Endocrinology
86-000403
Enzymes
86-001408
86-002312
Feeding Experiments
86-003561
Feeds
86-003561
Growth Hormone
86-000403
Life History/General
86-004252
Management/Research--General
86-004252
Osmoregulation
86-000327
Parasites/Diseases
86-000899

...CONTINUED...
Acipenser transmontanus
Parasites/Diseases
86-005050
Reproduction
86-000316
Reproductive System
86-000221
Starvation
86-000399
Status
86-004252
Status/Idaho
86-004673
Temperature
86-000178
Viral Diseases
86-000899
86-005050
Acipenseridae
Abundance/Factors of
86-001759
86-001760
Culture/Propagation
86-000039
86-000517
86-003392
Excretory System
86-002237
Floods
86-001759
Flow Regimes
86-001630
86-001759
Kidney
86-002237
Life History/General
86-000517
Management/Research--Rivers and Streams
86-001968
Predator/Prey Relationships
86-001760
Reproductive System
86-003750
Salinity
86-001630
Spawning
86-001630
Stocking/Introductions
86-001968
Supplemental Stocking
86-001968
Acipenseriformes
Digestive System
86-000659
Foods/Feeding
86-000659
Actinopterygii
Enzymes
86-003859
Evolution
86-000836
Adinia xenica
Early Development
86-001358
86-001359
Embryology
86-000131
Aequidens curviceps
Foods/Feeding/Selectivity
86-000671
Aequidens pulcher
Endocrinology
86-000336
Pituitary
86-000336

Aethotaxis mitopteryx
Body Form
86-004175
Bouyancy Adjustment
86-004175
Agnatha
Blood Chemistry
86-003878
Hormones
86-004005
Metabolism
86-004005
Mouth Parts
86-003715
Olfaction
86-003715
Reproduction
86-003870
Respiration
86-003844
Agonostomus monticola
Blood Chemistry
86-003858
Agosia chrysogaster
Management/Research--General
86-005338
Spawning
86-004407
Status
86-004354
Aguarumichthys
New Genus
86-004902
Aguarumichthys torosus
New Species
86-004902
Alburnus alburnus
Competition
86-000705
Foods/Feeding
86-000705
Hybridization
86-004094
Movements
86-004442
Alburnus alburnus alborella
Predator/Prey Relationships
86-004501
Trophic Relationships
86-004501
Alburnus bipunctatus
Length-Weight Relationships
86-002841
Alepisauroidea
Skeletal System
86-004491
Alepocephalus longiceps
Distribution/Geographical
86-004712
Alopias vulpinus
Foods/Feeding
86-002791
Alosa aestivalis
Foods/Feeding
86-001582
Nets/Netting
86-001971
Sampling
86-001971
Spawning
86-001582
Alosa alosa
Movements
86-004443
Rheotoxin
86-004443

...CONTINUED...
Alosa alosa
Spawning Migration
86-000599
Temperature
86-004443
Temperature Selection
86-004443
Alosa caspia nordmanni
Life History/General
86-000551
Alosa fallax fallax
Parasites/Diseases
86-001790
Alosa pseudoharengus
Abundance
86-000576
Abundance/Factors of
86-000790
Acid Precipitation
86-001459
Acoustic Barriers
86-005534
Age/Growth
86-000576
86-001699
Blood Chemistry
86-001459
Competition
86-004500
Fish Passage
86-005534
Foods/Feeding
86-004500
86-004610
Mortality Rates
86-004353
Nets/Netting
86-001971
pH
86-001459
Population Studies
86-004353
86-004363
Predator/Prey Relationships
86-004610
Recruitment
86-000576
Sampling
86-001971
Temperature
86-000576
Vision
86-002358
Alosa sapidissima
Abundance/Factors of
86-000793
86-002713
86-005544
Age/Growth
86-000793
Culture/Propagation
86-001307
Fish Lifts
86-005529
Fish Passage
86-005529
Flow Regimes
86-002713
Life History/General
86-000543
86-004248
Management/Research--Rivers and Streams
86-001255
Movements
86-004465

...CONTINUED...
Alosa sapidissima
Movements
86-005529
Orientation/Homing
86-004201
Population Studies
86-005544
Spawning Migration
86-004201
Stock-Recruitment
86-005544
Survival
86-000793
Tank Culture
86-001307
Year Class Strength
86-002713
Alticus kirki
Life History/General
86-000531
Terrestrial Grazing
86-000531
Ambassis agrammus
Early Development
86-001389
Spawning
86-001389
Ambloplites rupestris
Fright Behavior
86-000474
Predator/Prey Relationships
86-000474
Spawning
86-004426
Amblyopsis rosae
Distribution/Geographical
86-000786
Habitat Selection
86-000786
Amia calva
Air Breathing
86-000331
Blood Chemistry
86-002317
Early Development
86-002219
Embryology
86-002218
86-002219
Nervous System
86-000331
Respiration
86-000331
86-002399
Steroids
86-002317
Ammocrypta beani
Life History/General
86-002686
Ammodytes
Predator/Prey Relationships
86-002662
Schooling Behavior
86-002662
Ammodytes americanus
Foods/Feeding
86-004566
Ammodytes hexapterus
Abundance/Factors of
86-001749
Predator/Prey Relationships
86-001749
Ammodytes lancea
Aeromonas salmonicida
86-004957
...CONTINUED...
Ammodytes lancea
Bacterial Diseases
86-004957
Parasites/Diseases
86-004957
Ammodytes personatus
Hatching Time
86-001601
Invertebrate Predation
86-000712
Life History/General
86-001601
Mortality Factors
86-000712
Predator/Prey Relationships
86-000712
Starvation
86-004078
Ammodytoidei
Early Development
86-004900
Taxonomy
86-004900
Ammotretis rostratus
Early Development
86-003694
Embryology
86-003694
Amphipnous cuchia
Cardio-Vascular System
86-003757
Hypothalamic-Hypophyseal System
86-003995
Amphiprion
Symbiosis
86-001554
Amphiprion clarkii
Age/Growth
86-001702
Protandry
86-001702
Anabas testudineus
Air Breathing
86-003761
Olfaction
86-003778
Respiratory System
86-003761
Anarchichas lupus
Osmoregulation
86-004034
Anarhichas lupus
Spawning
86-000615
Anchoa
Nets/Netting
86-005498
Trawls
86-005498
Anchoa mitchilli
Fish Preservation
86-002252
Karyotypes
86-000440
Otoliths
86-002252
Anguilla
Distribution/Geographical
86-001714
86-001716
86-001727
Distribution/Vertical
86-004446
Fish Stocks
86-001714

...CONTINUED...
Anguilla
Life History/General
86-001714
Meristic Studies
86-001714
Movements
86-004446
Otoliths
86-004446
Variation Studies
86-001714
Anguilla americana
Fish Passage
86-001198
Fish Pumps
86-001198
Anguilla anguilla
Aeromonas hydrophila
86-004981
Age/Growth
86-001708
86-004642
Age/Length Composition
86-004283
Aluminum
86-005256
Amino Acids
86-003851
Bacterial Diseases
86-004981
Biochemical Composition
86-001404
86-003867
Biomagnification
86-000949
Blood Chemistry
86-002500
86-002559
Cadmium
86-000949
Catchability
86-005494
Catecholamines
86-002320
86-002514
Cortisol
86-002500
Culture/Propagation
86-000086
86-001306
86-002136
86-002137
86-003425
86-003428
Currents
86-001726
Diets
86-002137
Digestive System
86-003851
Distribution/Factors of
86-001726
Endocrinology
86-002424
86-002498
86-002559
86-003837
86-003867
Epieimeria anguillae
86-002982
Eulan WA New
86-003124
Feeding Experiments
86-000086
86-002136

...CONTINUED...
Anguilla anguilla
Feeding Experiments
86-002137
86-003425
Feeds
86-000086
86-002136
86-003425
Flow Regimes
86-004447
Harvest
86-004351
Heated Water
86-003428
Heavy Metals
86-000949
86-005256
Hormones
86-000235
Hydrostatic Pressure
86-002299
86-002514
86-002748
Induced Maturation
86-001422
Life History/General
86-004445
Lipid Composition
86-001404
Lunar Influences
86-005494
Maturation
86-002498
Metamorphosis
86-001708
Movements
86-004445
86-004447
Myxobolus kotlani
86-002983
Nephroblastoma
86-005100
Nets/Netting
86-004283
Osmoregulation
86-002559
86-003925
Parasites/Diseases
86-002923
86-002982
86-002983
86-004981
86-005100
pH
86-005256
Pituitary
86-000132
Polychlorinated Biphenyls
86-001862
Population Studies
86-001611
86-004306
86-004351
Predator/Prey Relationships
86-000679
Pressure Effects
86-002299
Protozoan Diseases
86-002982
86-002983
Reproduction
86-002424
Sex Ratios
86-004283
Spawning
86-002748

...CONTINUED...
Anguilla anguilla
Spawning Migration
86-002748
Starvation
86-001404
Temperature
86-002672
86-004447
Temperature Selection
86-002672
Trophic Relationships
86-000679
Vision
86-003701
Wind
86-004447
86-005494
Yield
86-004306
Anguilla australis
Cardio-Vascular System
86-002402
Foods/Feeding
86-001685
Anguilla australis schmidtii
Blood Chemistry
86-000247
Hypoxia
86-000247
Respiration
86-000247
Anguilla japonica
Aeromonas salmonicida
86-004976
Age/Growth
86-004649
Bacterial Diseases
86-000877
86-004976
86-004988
Batracobdella smarasdina
86-005132
Blood Chemistry
86-003980
86-004050
86-004988
Branchiomyces
86-005019
Collagen
86-004027
Copper
86-005293
Culture/Propagation
86-001302
86-003422
Digestive System
86-001507
Edwardsiella tarda
86-000877
Endocrinology
86-003909
86-003982
Enzymes
86-001507
Filtration Systems
86-003422
Fungal Diseases
86-005019
Gill Diseases
86-005019
Gyrodactylus
86-005130
Heavy Metals
86-005246
86-005293

...CONTINUED...
Anguilla japonica
Immunization
86-000877
Inflammatory Response
86-004050
Leeches
86-005132
Mucus
86-001506
Osmoregulation
86-002293
86-003909
Oxygen
86-004649
Parasites/Diseases
86-000877
86-003422
86-004976
86-004988
86-005019
86-005130
86-005132
Pond Culture
86-001302
Recirculating Systems
86-003422
Trematodes
86-005130
Ulcer Disease
86-004976
Zinc
86-005246
Anguilla rostrata
Activity Patterns
86-004190
Aeromonas hydrophila
86-002945
Age/Growth
86-000732
Anesthetics
86-001887
Antimycin
86-003109
Bacterial Diseases
86-002945
Copper Sulfate
86-003109
Diquat
86-003109
Distribution/Geographical
86-001581
86-001743
Dylox
86-003109
Endocrinology
86-002319
Enzymes
86-002319
Food Conversion Efficiency
86-001419
Foods/Feeding
86-004519
Formalin
86-003109
86-003123
Furanace
86-003109
Growth Stimulants
86-002348
Home Range
86-000473
Hormones
86-002348
Immune Response
86-002945

...CONTINUED...
Anguilla rostrata
Life History/General
86-001581
Malachite Green
86-003123
Maturation
86-001581
Metabolic Rates
86-001419
Metamorphosis
86-001427
86-002360
Movements
86-001657
86-002770
MS-222
86-001887
Musculature
86-002360
Mutagens
86-004108
Osmoregulation
86-002362
Parasites/Diseases
86-002925
86-002927
86-002945
Population Studies
86-000473
Potassium Permanganate
86-003109
86-003123
Rotenone
86-003109
Salt
86-003109
Sex Ratios
86-000732
Temperature
86-001419
Anguillidae
Culture/Propagation
86-000034
Anguilliformes
Early Development
86-003691
Taxonomy
86-004897
Anoplopoma fimbria
Age/Growth
86-000717
86-002827
86-004652
Nematodes
86-001837
Parasites/Diseases
86-001837
Antennarius
Aquariums
86-000090
Culture/Propagation
86-000090
Anthias squamipinnis
Home Range
86-004212
Sex Reversal
86-004212
86-004213
Social Behavior
86-004213
Antipodocottus galatheae
Taxonomy
86-004876
Apeltes quadracus
Orientation/Homing
86-004161
...CONTINUED...
Apeltes quadracus
Salinity
86-004161
Spawning
86-001634
Aphanius dispar
Hybridization
86-001551
Aphanius fasciatus
Hybridization
86-001551
Aphredoderus sayanus
Identification/Larvae
86-003756
Aphyosemion
Taxonomy
86-004890
Aphyosemion schmitti
Taxonomy
86-004890
Apistogramma borellii
Aquariums
86-003603
Culture/Propagation
86-003603
Apistogramma hongsloi
Aquariums
86-003602
Culture/Propagation
86-003602
Aplodinotus grunniens
Acanthocephala
86-001842
Lintaxine cokeri
86-003029
Parasites/Diseases
86-001842
86-003029
Pomphorhynchus rocci
86-001842
Trematodes
86-003029
Apogon
Karyotypes
86-002611
Taxonomy
86-002611
Apogon aroubiensis
Status
86-002907
Taxonomy
86-002907
Apogon chalcius
New Species
86-004825
Apogon ellioti
Acanthobothrium
86-005087
Cestodes
86-005087
Parasites/Diseases
86-005087
Apogon nigrofasciatus
Status
86-002907
Taxonomy
86-002907
Apogonidae
Karyotypes
86-004144
Apteronotus albifrons
Nervous System
86-003682
Apteronotus leptorhynchus
Acoustico-Lateralis System
86-002301

...CONTINUED...

Apteronotus leptorhynchus
Electrophysiology
86-002301
Arapaima gigas
Age/Growth
86-004659
Archoplites interruptus
Parasites/Diseases
86-001793
Archosargus probatocephalus
Aquariums
86-000112
Copper
86-001921
Heavy Metals
86-001921
Karyotypes
86-002599
Archosargus unimaculatus
Age/Growth
86-001707
Condition Factors
86-001707
Length-Weight Relationships
86-001707
Arctica islandica
Biomagnification
86-003083
Heavy Metals
86-003083
Hydrocarbons
86-003083
Polychlorinated Biphenyls
86-003083
Trace Metals
86-003083
Arctoscopus japonicus
Harvest
86-000546
Life History/General
86-000546
Argentina elongata
Competition
86-000660
Foods/Feeding
86-000661
Foods/Feeding/Selectivity
86-000660
Argentinoidei
Early Development
86-004783
Taxonomy
86-004783
Argyropelecus hemigymnus
Bioluminescence
86-001470
Argyrosomus argentatus
Enzymes
86-000262
Argyrosomus hololepidotus
Foods/Feeding
86-000695
Predator/Prey Relationships
86-000695
Arhcosargus probatocephalus
Culture/Propagation
86-000112
Ariopsis bonillai
Age/Growth
86-004330
Length-Weight Relationships
86-004330
Mortality Rates
86-004330
Population Studies
86-004330
Aristichthys nobilis
Aquatic Plant Control
86-003419
Brood Stock
86-003479
Chromosome Studies
86-004092
Culture/Propagation
86-002096
86-003462
86-003479
Digestive System
86-000203
Electrophoresis
86-000445
Enzymes
86-000203
Induced Maturation
86-002096
86-003462
Karyotypes
86-004092
Temperature Selection
86-000472
Trophic Relationships
86-004565
Arius felis
Cage Culture
86-002027
Copper
86-001921
Culture/Propagation
86-002027
Heated Water
86-002027
Heavy Metals
86-001921
Power Plant Effluents
86-002027
Arius tenuispinis
Nodular Excrescences
86-005145
Parasites/Diseases
86-005145
Arius thalassinus
Acanthobothrium
86-005087
Cestodes
86-005087
Healing
86-003823
Lipid Composition
86-003822
Parasites/Diseases
86-005087
Arnoglossus laterna
Acanthocephala
86-005095
Acanthocephaloides geneticus
86-005095
Parasites/Diseases
86-005095
Arnoglossus thori
Age/Growth
86-001706
Foods/Feeding
86-004605
Metabolic Rates
86-001706
Artediellus
Distribution/Geographical
86-004256
Life History/General
86-004256
Taxonomy
86-004256

Artedius
Taxonomy
86-002916
Astatotilapia elegans
Mouth Parts
86-003726
Skeletal System
86-003726
86-003727
Astyanax bimaculatus
Reproduction
86-003998
Reproductive System
86-002743
86-003998
Spawning
86-002743
Astyanax fasciatus
Light
86-000501
Photoperiodism
86-000501
Speciation
86-004156
Atheresthes evermanni
Electrophoresis
86-002610
Taxonomy
86-002610
Atheresthes stomias
Electrophoresis
86-002610
Taxonomy
86-002610
Atherinidae
Calyptospora funduli
86-002977
Distribution/Geographical
86-004724
Evolution
86-004815
Life History/General
86-004295
86-004724
Nets/Netting
86-005506
Parasites/Diseases
86-002977
Protozoan Diseases
86-002977
Speciation
86-004815
Taxonomy
86-004815
Atheriniformes
Early Development
86-004910
Taxonomy
86-004910
Atherinomorpha
Taxonomy
86-004807
Atherinops affinis
Distribution/Geographical
86-004709
Atherinopsinae
Evolution
86-000841
Taxonomy
86-000841
Atherinosoma wallacei
New Species
86-004882
86-004883
Atractoscion aequidens
Foods/Feeding
86-002800
Auchenipteridae
Aquariums
86-002179
Culture/Propagation
86-002179
Auchenoglanis occidentalis
Life History/General
86-004289
Awaous tajasica
Distribution/Geographical
86-002850
Bairdiella chrysoura
Bioenergetics
86-000211
Balistes capriscus
Age/Growth
86-000735
Offshore Drilling
86-000735
Balistoidei
Early Development
86-003678
Barbinae
Karyotypes
86-004123
Barbus
Evolution
86-001762
86-001763
Hybridization
86-000443
86-000444
Morphology
86-001762
86-001763
Taxonomy
86-001762
86-001763
86-002890
Variation Studies
86-002890
Barbus aeneus
Digestion Rates
86-002357
Digestive System
86-003699
Early Development
86-003699
Metabolic Rates
86-000243
Respiration
86-000243
Temperature
86-000243
86-002357
Barbus barbus
Age/Growth
86-004640
Culture/Propagation
86-003446
Fingerling Production
86-003446
Length-Weight Relationships
86-002841
Meristic Studies
86-003749
Variation Studies
86-003749
Barbus barbus bocagei
Eimeria
86-005024
Parasites/Diseases
86-005024
Protozoan Diseases
86-005024

Barbus burchelli
Life History/General
86-000518
Barbus callensis
Population Studies
86-004346
Barbus canis
Hybridization
86-000454
Barbus chantrei
Taxonomy
86-000826
Barbus conchonius
Lymphatic System
86-000304
Barbus continii
Hybridization
86-000454
Barbus holubi
Lernaea barnimiani
86-003048
Parasites/Diseases
86-003048
Parasitic Copepods
86-003048
Barbus longiceps
Hybridization
86-000454
Barbus luteus
Meristic Studies
86-002217
Barbus marequensis
Dolops ranarum
86-001823
Parasites/Diseases
86-001823
Parasitic Copepods
86-001823
Barbus meridionalis
Length-Weight Relationships
86-002841
Barbus sharpeyi
Age/Growth
86-002811
Barbus trevelyani
Life History/General
86-004251
Bardus apoensis
Culture/Propagation
86-002021
Basilichthys australis
Life History/General
86-004295
Basilichthys bonariensis
Condition Factors
86-001705
Bathylagidae
Foods/Feeding
86-001669
86-002779
Bathylagus
Taxonomy
86-000825
Bathylychnops exilis
Life History/General
86-000560
Morphology
86-000560
Bathyraja andriashevi
New Species
86-001768
Bathyraja bergi
New Species
86-001768
Bathyraja fedorovi
New Species
86-001768
Bathyraja isotrachys
New Species
86-001768
Taxonomy
86-001768
Beliops
New Genus
86-000822
Beliops xanthokrossos
New Species
86-000822
Beloniformes
Early Development
86-004808
Taxonomy
86-004808
Benthalbella infans
Bioluminescence
86-000284
Benthophilus
Fecundity
86-001648
Maturation
86-001648
Morphology
86-002273
Spawning
86-001648
Berryteuthis magister
Life History/General
86-004302
Beryciformes
Early Development
86-004855
Taxonomy
86-004855
Betta
Aquariums
86-003606
Culture/Propagation
86-003606
Betta splendens
Aggressive Behavior
86-004162
Bivibranchia notata
New Species
86-000839
Blenniidae
Foods/Feeding/Selectivity
86-004622
Identification/Larvae
86-004809
Mouth Parts
86-003714
Skeletal System
86-004799
Taxonomy
86-004799
Vision
86-003816
Blenniini
Taxonomy
86-004792
Blennioidei
Early Development
86-004868
Taxonomy
86-004868
86-004891
Blennius normani
Meristic Studies
86-002239
Taxonomy
86-002239
Blennius ocellaris
Meristic Studies
86-002239

...CONTINUED...
Blennius ocellaris
Taxonomy
86-002239
Blennius pavo
Liver
86-001493
Blennius pholis
Excretory System
86-002343
Oil Shale Effluents
86-003120
Blennius riodourensis
Meristic Studies
86-002239
Taxonomy
86-002239
Blicca bjoerkna
Foods/Feeding
86-004545
Hybridization
86-004094
Movements
86-004442
Reproduction
86-002554
Sex Ratios
86-002554
Skeletal System
86-002249
Temperature
86-002554
Bodianus
Dominance
86-000488
Social Behavior
86-000488
Bodianus cylindriatus
Distribution/Geographical
86-000774
Boesemania microlepis
Taxonomy
86-002919
Boleophthalmus boddarti
Gills
86-003724
Locomotion
86-000477
Respiratory System
86-003724
Boops boops
Age/Growth
86-002818
Culture/Propagation
86-003500
Endorphins
86-000419
Fry Production
86-003500
Nervous System
86-000419
Brachiopterygian
Skeletal System
86-002891
Taxonomy
86-002891
Brachydanio
Eggs
86-000228
Embryology
86-001423
Fertilization
86-000431
Ionophore A23187
86-000371
Brachydanio rerio
Alarm Cells
86-004044
...CONTINUED...
Brachydanio rerio
Alarm Substances
86-004044
Aquariums
86-000098
Bioassay Techniques
86-005237
Cadmium
86-001453
86-005249
Chemoreception
86-000483
Communication
86-000483
Culture/Propagation
86-000098
Detergents
86-001000
Embryology
86-001374
86-003755
Escape Behavior
86-004176
Fecundity
86-004424
Fire Retardants
86-005232
Gene Organization
86-001548
Heavy Metals
86-001453
86-005249
Liver
86-000356
Mercury
86-005249
Nervous System
86-003755
Reproduction
86-004424
Spawning
86-004424
Steroids
86-000356
Swimming Performance
86-004182
Temperature
86-004182
Trialkyl-aryl Phosphate
86-005232
Brachymystax
Genetic Divergence
86-002580
Brachymystax lenok
Biomagnification
86-005191
Cadmium
86-005191
Copper
86-005191
Heavy Metals
86-005191
Lead
86-005191
Zinc
86-005191
Brama japonica
ATP
86-003939
Hybridization
86-003939
Bregmacerotidae
Early Development
86-004842
Taxonomy
86-004842

Breviraja claramaculata
New Species
86-000829
Breviraja nigriventralis
New Species
86-000829
Breviraja schroederi
New Species
86-000829
Breviraja spinosa
Coloration
86-000829
Variation Studies
86-000829
Brevoortia patronus
Karyotypes
86-000440
Brevoortia smithi
Karyotypes
86-000440
Brevoortia tyrannus
Age/Length Composition
86-001203
Branchial Basket
86-000143
Foods/Feeding
86-000143
Fungal Diseases
86-001810
Karyotypes
86-000440
Management/Research--Marine
86-001269
Movements
86-004463
Parasites/Diseases
86-001810
Population Studies
86-001269
86-004463
Brienomyrus niger
Foods/Feeding
86-002781
Brosme brosme
Distribution/Geographical
86-001589
Distribution/Vertical
86-001589
Movements
86-001589
Spawning
86-001589
Buglosidium luteum
Foods/Feeding
86-004605
Buglossidium luteum
Age/Growth
86-001706
Metabolic Rates
86-001706
Caesio teres
Spawning
86-001632
Callionymidae
Early Development
86-004843
Taxonomy
86-004843
Campostoma anomalum
Hybridization
86-002595
Oxygen
86-001882
Phenols
86-001882

...CONTINUED...

Campostoma anomalum
Temperature
86-001882
Cancelloxus elongatus
New Species
86-004835
Canthigaster punctatissima
Social Behavior
86-001565
Spawning
86-001565
Capoeta damascina
Foods/Feeding
86-004532
Capoetobrama kuschakewitschi
Foods/Feeding
86-002796
Carangidae
Early Development
86-003744
Taxonomy
86-004896
Caranx caballus
Identification/Larvae
86-001393
Morphology
86-001393
Caranx melampygus
Foods/Feeding
86-002793
Predator/Prey Relationships
86-002793
Caranx ruber
Age/Growth
86-002816
Digestion Rates
86-002792
Foods/Feeding
86-002792
Caranx sexfasciatus
Identification/Larvae
86-001393
Morphology
86-001393
Carassius
Hybridization
86-001532
Carassius auratus gibelio
Liver
86-001871
Carassius auratus
Aeromonas hydrophila
86-002941
Aeromonas salmonicida
86-004960
Aquariums
86-000095
Arousal
86-002666
Auditory Senses
86-000479
86-002639
Bacterial Diseases
86-001413
86-002941
86-004960
Bacterial Flora
86-001413
Brain
86-003807
Cardio-Vascular System
86-000414
Catecholamines
86-000270
Caudal Neurosecretory System
86-004077

...CONTINUED...
Carassius auratus
Chlorinated Byphenyls
86-001865
Culture/Propagation
86-000095
86-001305
86-003461
Dibenzo-p-Dioxins
86-001865
Digestive System
86-001370
86-003949
86-003950
Digestive System/Bacterial Flora
86-003948
86-003949
86-003950
Endocrinology
86-000381
86-001435
86-002437
86-002536
Enzymes
86-003949
Eulan WA New
86-003124
Fungal Diseases
86-005022
Goussia carpelli'
86-005035
Growth Hormone
86-001471
Hormones
86-000261
86-001929
86-002437
86-002489
86-003942
Ichthyophthiriasis
86-005038
Ichthyophthirius multifiliis
86-005038
Immune Response
86-004077
Induced Maturation
86-000392
86-001305
86-003461
Industrial Wastes
86-003010
Musculature
86-002574
Nervous System
86-000172
86-000251
86-001435
86-001519
86-002281
86-002286
86-003807
Olfaction
86-002509
Osmoregulation
86-002302
86-002455
Parasites/Diseases
86-001413
86-002941
86-003010
86-004934
86-004960
86-005022
86-005035
86-005038
86-005052

...CONTINUED...
Carassius auratus
pH
86-001929
Pigments
86-002339
86-002546
Pineal Body
86-001474
86-003973
Protozoan Diseases
86-005035
86-005038
Reproduction
86-000381
86-002437
86-002489
86-002536
Reproductive System
86-001424
86-003812
RNA
86-002598
Saprolegnia
86-005022
Steroids
86-000349
86-003942
Temperature
86-000414
86-002574
Thermal Pollution
86-001871
Triploid Fish
86-003812
Tumors
86-003010
Ulcer Disease
86-004960
Variation Studies
86-002598
Viral Diseases
86-005052
Vision
86-000486
86-000513
86-001442
86-001522
86-002281
86-002286
86-002287
86-002546
86-002655
Carassius auratus gibelio
Life History/General
86-002684
Carassius auratus langsdorfii
Polyploidy
86-001540
Triploid Fish
86-001540
Carassius carassius
Anoxia
86-000277
86-001447
Blood Chemistry
86-002490
Culture/Propagation
86-002098
Eimeria
86-005024
Electrophoresis
86-002621
Eptam
86-005308
Herbicides
86-005308

...CONTINUED...
Carassius carassius
Hybridization
86-002098
Karyotypes
86-001550
Malate Dehydrogenase
86-002621
Management/Research - Ponds
86-001613
Modown
86-005308
Nervous System
86-002286
Parasites/Diseases
86-004934
86-005024
Polyculture
86-002098
Polymorphism
86-002621
Pond Culture
86-002098
Population Studies
86-001613
Protozoan Diseases
86-005024
Respiration
86-000277
Salinity
86-004063
Steroids
86-002490
Treflan
86-005308
Vision
86-002286
Winterkill
86-005612
Carassius gibelio langsdorfi
Eggs
86-002256
Pigments
86-002256
Carcharhinus
Abnormalities
86-003781
Age/Growth
86-004647
Taxonomy
86-002895
Carcharhinus amblyrhynchos
Age/Growth
86-004632
Aggressive Behavior
86-004204
Attacks on Humans
86-004204
Bioenergetics
86-004632
Movements
86-004457
Schooling Behavior
86-004457
Carcharhinus galapagensis
Age/Growth
86-004632
Bioenergetics
86-004632
Carcharhinus plumbeus
Antibiotics
86-004939
Foods/Feeding
86-000684
Parasites/Diseases
86-004939
Carcharodon carcharias
Age/Growth
86-004627
Aggressive Behavior
86-004199
Attacks on Humans
86-004197
86-004199
86-004235
86-004739
Blood Chemistry
86-003700
Body Temperature
86-003849
Distribution/Geographical
86-004671
86-004700
86-004739
Foods/Feeding
86-004199
86-004478
86-004607
Heart
86-003700
Life History/General
86-004235
Predator/Prey Relationships
86-004478
Temperature
86-003849
Vision
86-003719
Careproctus ranula
Distribution/Geographical
86-000750
Spawning
86-000750
Careproctus reinhardti
Distribution/geographical
86-000750
Spawning
86-000750
Catla catla
Enzymes
86-002520
Ichthyophthiriasis
86-005038
Ichthyophthirius multifiliis
86-005038
Insecticides
86-005279
Liver
86-002520
Parasites/Diseases
86-005038
Phosphamidon
86-005279
Protozoan Diseases
86-005038
Catoprion mento
Aquariums
86-001323
Culture/Propagation
86-001323
Catostomidae
Early Development
86-000144
Taxonomy
86-000144
Catostomus commersoni
Acid Precipitation
86-001459
Acidification
86-000944
Age/Growth
86-001405

...CONTINUED...
Catostomus commersoni
Bayer 73
86-001043
Biomagnification
86-005156
Blood Chemistry
86-001459
86-001516
86-002568
Cadmium
86-005156
86-005236
Calcium
86-001516
DCP
86-005236
DNA
86-001401
Food Conversion Efficiency
86-001405
Foods/Feeding/Selectivity
86-001405
Gill Parasites
86-003009
Heavy Metals
86-005156
86-005236
Larval Drift
86-004393
Life History/General
86-000944
Myxobolus
86-003009
Myxosporea
86-003009
Osmoregulation
86-002567
86-002568
Parasites/Diseases
86-003009
Pentachlorophenol
86-005236
Pesticides
86-001043
pH
86-000944
86-001459
86-001479
86-001516
Protozoan Diseases
86-003009
Rodlet Cells
86-003833
Salinity
86-002567
86-002568
Spawning
86-004393
TFM
86-001043
Catostomus warnerensis
Life History/General
86-004239
Morphology
86-004239
Taxonomy
86-004239
Caulophryne pietschi
New Species
86-004791
Cebidichthys violaceus
Activity Patterns
86-004467
Movements
86-004467
Centrarchidae
Culture/Propagation
86-003467
Centrophorus tesselatus
Distribution/Geographical
86-003720
Meristic Studies
86-003720
Centropomus
Taxonomy
86-004888
Centropristes melana
Culture/Propagation
86-002145
Diets
86-002145
Feeding Experiments
86-002145
Growth
86-002145
Centropristis striata
Benzo(a)pyrene
86-003099
Cadmium
86-003099
Enzymes
86-000208
Heavy Metals
86-003099
Centroscyllium shickoi
New Species
86-002893
Cephaloscyllium umbratile
Caudal Neurosecretory System
86-004077
Immune Response
86-004077
Ceratias tentaculatus
Taxonomy
86-004796
Ceratiidae
Distribution/Geographical
86-002906
Taxonomy
86-002906
Ceratioidei
Early Development
86-004797
Taxonomy
86-004797
Cetengraulis edentulus
Commercial Fishing
86-002002
Harvest
86-002002
Management/Research--Marine
86-002002
Cetonurus
Taxonomy
86-001782
Cetorhinus maximus
Distribution/Geographical
86-004703
Chaenocephalus aceratus
Foods/Feeding
86-004537
Musculature
86-000283
Chaenopsinae
Fish Lists/Keys
86-004788
Taxonomy
86-004788
Zoogeography
86-004788

Chaetodipterus faber
Cage Culture
86-002027
86-002110
Culture/Propagation
86-002027
86-002110
86-003505
Heated Water
86-002027
86-002110
Induced Maturation
86-003505
Power Plant Effluents
86-002027
86-002110
Chaetodon multicinctus
Parasites/Diseases
86-003030
Tumors
86-003030
Chaetodon trifasciatus
Territorial Behavior
86-004218
Chaetodontidae
Competition
86-004181
Reef Fish Communities
86-004181
Chalcalburnus chalcoides mento
Embryology
86-002240
Temperature
86-002240
Champsocephalus gunnari
Age/Growth
86-002825
Foods/Feeding
86-004537
Channa
Enzymes
86-000220
Lactate Dehydrogenase
86-000220
Channa argus
Air Breathing
86-002384
Cardio-Vascular System
86-002412
Hypoxia
86-002384
Lipid Composition
86-001410
Nervous System
86-002412
Respiration
86-002384
Channa maculata
Bacterial Diseases
86-005013
Parasites/Diseases
86-005013
Pasteurella
86-005013
Channa marulius
Olfaction
86-003713
Channa orientalis
Nematodes
86-005118
Parasites/Diseases
86-005118
Philometra channai
86-005118
Channa punctatus
Ammonium
86-003141

...CONTINUED...

Channa punctatus
Ammonium Sulfate
86-003133
Blood Chemistry
86-000255
Carbamates
86-005309
Carbaryl
86-005304
Carbofuran
86-005309
Emisan
86-003142
Endosulfan
86-003105
Fenitrothion
86-005309
Fertilizers
86-003133
86-003141
Fungicides
86-003142
Heavy Metals
86-001014
Insecticides
86-003105
86-005304
Lipid Metabolism
86-005304
Malathion
86-003105
Mercury
86-001014
Myxosporidia
86-002985
Organophosphates
86-005309
Parasites/Diseases
86-002985
Phenthoate
86-005304
Protozoan Diseases
86-002985
Salinity
86-001421
Channa striata
Air Breathing
86-003725
Lernaea cyprinacea
86-003035
Parasites/Diseases
86-003035
Parasitic Copepods
86-003035
Respiratory System
86-003725
Channichthys rhinoceratus
Cardio-Vascular System
86-000140
Channidae
Culture/Propagation
86-000049
Chanos chanos
Abundance/Factors of
86-002759
Bacterial Diseases
86-004982
Brood Stock
86-002075
Cage Culture
86-002086
Condition Factors
86-004230
Culture/Propagation
86-000030

...CONTINUED...
Chanos chanos
Culture/Propagation
86-000055
86-002075
86-002084
86-002085
86-002086
86-003576
Diets
86-003576
Egg Collection
86-000030
Feeding Experiments
86-003576
Foods/Feeding
86-004230
Induced Maturation
86-002084
86-002085
Length-Weight Relationships
86-004230
Maturation
86-002075
Meristic Studies
86-000180
Net-Pen Culture
86-000055
Parasites/Diseases
86-004982
Polyculture
86-000055
Pond Culture
86-000055
Spawning
86-002759
Variation Studies
86-000180
Characidae
Aquariums
86-000097
Culture/Propagation
86-000097
Foods/Feeding
86-004228
Habitat Selection
86-004228
Life History/General
86-004228
Characoidei
Dentition
86-002260
Chasmistes cujus
Life History/General
86-004287
Trophic Relationships
86-000669
Chasmistes liorus
Life History/General
86-005356
Management/Research--General
86-005356
Status
86-005356
Cheilodactylus macropterus
Otoconia
86-003709
Cheimarrichthys fosteri
Foods/Feeding/Selectivity
86-004589
Cheimerius nufar
Foods/Feeding
86-004595
Helminths
86-005083
Parasites/Diseases
86-005083

...CONTINUED...
Cheimerius nufar
Santeria rubalo
86-005083
Cheirodon affinis
Taxonomy
86-000819
Cheirodon arnoldi
Taxonomy
86-000819
Cheirodon pisciculus
Mouth Parts
86-002230
Chelon labrosus
Heavy Metals
86-001028
Immune Response
86-003976
Microgemma hepaticus
86-005043
Parasites/Diseases
86-005043
Protozoan Diseases
86-005043
Chermerius nufar
Population Studies
86-002717
Chiloglanis
Taxonomy
86-004854
Chimaera monstrosa
Gyrocotyle
86-003008
Parasites/Diseases
86-003008
Trematodes
86-003008
Chionodraco rastrospinosus
Foods/Feeding
86-004537
Chirostoma
Evolution
86-003684
Meristic Studies
86-003684
Speciation
86-003684
Taxonomy
86-003684
Variation Studies
86-003684
Chloroscombrus orqueta
Identification/Larvae
86-001393
Morphology
86-001393
Chondrichthes
Attacks on Humans
86-000559
Fish Lists/Keys
86-000559
Life History/General
86-000559
Taxonomy
86-000559
Chondrichthyes
Aquariums
86-000099
Blood Chemistry
86-003876
Body Temperature
86-002305
Cardio-Vascular System
86-000135
Distribution/Geographical
86-004687

...CONTINUED...
Chondrichthyes
Harvest
86-001138
86-001141
86-001154
Heart
86-000135
Locomotion
86-003780
Reproduction
86-003870
Scales
86-003780
Variation Studies
86-001546
Chondrostoma kinzelbachi
New Species
86-000827
Chondrostoma nasus
Hybridization
86-004120
Chondrostoma polylepis
Distribution/Geographical
86-001767
Goussia polylepidis
86-000881
Parasites/Diseases
86-000881
Protozoan Diseases
86-000881
Taxonomy
86-001767
Chondrostoma polylepis duriensis
New Subspecies
86-001767
Chondrostoma polylepis polylepis
Eimeria
86-005024
Parasites/Diseases
86-005024
Protozoan Diseases
86-005024
Chondrostoma willkommi
Distribution/Geographical
86-001767
Taxonomy
86-001767
Chromis caerulea
Abundance/Factors of
86-000508
Aggressive Behavior
86-000508
Chromis dispilus
Early Development
86-001372
Eggs
86-001372
Life History/General
86-001372
Spawning
86-001372
Chromis notatus
Life History/General
86-002700
Spawning
86-004427
Chromis punctipinnis
Artificial Reefs
86-000719
Trophic Relationships
86-000719
Chrysoblephus puniceus
Hermaphroditism
86-002382
Population Studies
86-002717
Chrysophrys auratus
Age/Growth
86-002615
Chrysophrys major
Blood Sampling
86-001448
Culture/Propagation
86-002167
86-003525
Diets
86-003525
Feeding Experiments
86-002167
Feeds
86-002167
Nutrition
86-002167
86-003525
Cichlasma nigrofasciatum
Brooding Behavior
86-000616
Spawning
86-000616
Cichlasoma aureum
Aquariums
86-002180
Culture/Propagation
86-002180
Cichlasoma citrinellum
Age/Growth
86-002674
Aggressive Behavior
86-002674
Aquariums
86-000111
Cannibalism
86-002674
Culture/Propagation
86-000111
Foods/Feeding
86-002674
Spawning
86-004429
Cichlasoma cyanogutatum
Parasites/Diseases
86-002993
Viral Diseases
86-002993
Cichlasoma fenestratum
Foods/Feeding/Selectivity
86-002773
Cichlasoma minckleyi
Evolution
86-004124
Speciation
86-004124
Taxonomy
86-004124
Cichlasoma nigrofasciatum
Aquariums
86-003592
Culture/Propagation
86-003592
Parasites/Diseases
86-002993
Spawning
86-000618
Territorial Behavior
86-004205
Viral Diseases
86-002993
Cichlasoma panamense
Spawning
86-001649
Cichlasoma tetracanthum
Crassicutis cichlasomae
86-005151

.. CONTINUED...
Cichlasoma tetracanthum
Embryology
86-001647
Parasites/Diseases
86-005151
Spawning
86-001647
Trematodes
86-005151
Cichlidae
Aquariums
86-000108
Blood Chemistry
86-002553
Culture/Propagation
86-000108
Dentition
86-001385
86-004619
Diplostomum
86-005090
Evolution
86-004145
86-004830
86-004874
Foods/Feeding
86-001678
86-004529
86-004560
86-004619
Genetic Divergence
86-004145
Habitat Selection
86-004373
Histology
86-001375
Identification
86-004803
Mouth Parts
86-003770
Parasites/Diseases
86-005090
Population Studies
86-004373
Rodlet Cells
86-001375
Scales
86-004803
Schooling Behavior
86-001678
Skeletal System
86-003718
86-003803
Spawning
86-004417
Speciation
86-004104
86-004145
86-004830
86-004874
Taxonomy
86-004145
86-004830
86-004874
Trematodes
86-005090
Cirrhina mrigala
Brood Stock
86-000032
Culture/Propagation
86-000032
86-003438
Hybridization
86-000453
Induced .laturation
86-003438

...CONTINUED...
Cirrhina mrigala
Insecticides
86-005279
Phosphamidon
86-005279
Selective Breeding
86-000032
Cirrhina reba
Fecundity
86-004408
Citharichthys stigmaeous
Benzo(a)pyrene
86-003110
Clarias anguillaris
Parasites/Diseases
86-003013
Trematodes
86-003013
Clarias batachus
Calcium
86-001505
Corpuscle of Stannius
86-001505
Ultimobranchial Gland
86-001505
Clarias batrachus
Age/Growth
86-003993
Cythion
86-003119
Enzymes
86-002520
Food Conversion Efficiency
86-003993
Insecticides
86-003119
Liver
86-002520
Organochlorines
86-003119
Organophosphates
86-003119
Clarias gariepinus
Age/Growth
86-004643
Blood Chemistry
86-002525
Culture/Propagation
86-000048
86-001317
86-003430
Dolops ranarum
86-001823
Endocrinology
86-000234
86-002511
86-003865
86-003900
Feeding Experiments
86-001317
Food Digestibility
86-001317
Habitat Selection
86-004169
Hormones
86-000234
86-001418
86-003900
Metabolic Rates
86-004643
Parasites/Diseases
86-001823
Parasitic Copepods
86-001823
Reproduction
86-000372

...CONTINUED...
Clarias gariepinus
Reproduction
86-001418
86-002511
Spawning Techniques
86-000048
Steroids
86-000372
86-002511
Tank Culture
86-003430
Clarias isheriensis
Blood Chemistry
86-000295
Clarias lazera
Parasites/Diseases
86-003013
Trematodes
86-003013
Clarias macrocephalus
Age/Growth
86-000333
Culture/Propagation
86-000333
86-003456
Fry Production
86-000333
Induced Maturation
86-003456
Orientocrendium batrachoides
86-005143
Parasites/Diseases
86-005143
Temperature
86-000333
Trematodes
86-005143
Clarias mossambicus
Respiratory System
86-003751
Clariidae
Culture/Propagation
86-003474
Hybridization
86-003474
Clinocottus
Taxonomy
86-002916
Clinostomus funduloides
Distribution/Geographical
86-000775
Clinus dorsalis
Digestive System
86-002333
Embryology
86-002333
Clupea bentincki
El Nino
86-000810
Clupea harengus
Abundance/Factors of
86-004767
Age/Growth
86-000726
86-002817
86-004276
86-004533
Biological Tags
86-001967
86-005461
Biomagnification
86-003078
86-005190
Cadmium
86-005199

...CONTINUED...
Clupea harengus
Chlorinated Hydrocarbons
86-005190
Commercial Fishing
86-005651
Copper
86-005199
DDT
86-003078
Distribution/Vertical
86-004469
Early Development
86-003706
Eutrophication
86-004767
Foods/Feeding
86-004280
86-004533
Harvest
86-005436
Heavy Metals
86-005190
86-005199
Insecticides
86-003078
Larval Drift
86-004276
Life History/General
86-004263
Lipid Composition
86-000315
Management/Research--Marine
86-005677
Marking/Tagging
86-001967
86-005461
Mercury
86-005199
Mortality Rates
86-004276
86-004280
Nets/Netting
86-005651
Otoliths
86-002224
Parasites/Diseases
86-001967
Polychlorinated Biphenyls
86-003078
Population Studies
86-004368
Production
86-004280
Salinity
86-004767
Spawning
86-000624
86-004280
Temperature
86-004469
86-004767
Zinc
86-005199
Clupea harengus harengus
Abundance/Factors of
86-000795
Age/Growth
86-000727
Anisakis simplex
86-005122
Competition
86-004498
Egg Size
86-000795
Foods/Feeding
86-004498

...CONTINUED...
Clupea harengus harengus
Genetic Divergence
86-004110
Lipid Metabolism
86-002560
Nematodes
86-005122
Parasites/Diseases
86-005065
86-005122
Viral Diseases
86-005065
Viral Erythrocytic Necrosis
86-005065
Clupea harengus pallasi
Abundance/Factors of
86-004780
Biochemical Composition
86-003891
Biomass
86-001620
Distribution/Seasonal
86-000630
Genetic Divergence
86-004110
Habitat Selection
86-000630
Intestinal Lesions
86-001833
Life History/General
86-004298
Management/Research--Marine
86-004298
Parasites/Diseases
86-001833
Population Studies
86-001620
86-004298
Predator/Prey Relationships
86-004780
Spawning
86-001620
86-004401
Clupea pallasi marisalbi
Early Development
86-003795
Clupea pallasi pallasi
Blood Chemistry
86-004087
Clupea sprattus phalericus
Biomass
86-004318
Management/Research--Marine
86-005630
Maximum Sustainable Yield
86-005630
Population Studies
86-004318
Clupeidae
Biochemical Composition
86-000187
Commercial Fishing
86-005656
Copper
86-000187
Distribution/Seasonal
86-004458
Iron
86-000187
Life History/General
86-004237
Management/Research--Marine
86-005656
Molybdenum
86-000187

...CONTINUED...
Clupeidae
Morphology
86-004237
Mortality Factors
86-004237
Paleontology
86-001772
Population Studies
86-005656
Taxonomy
86-001772
Clupeiformes
Early Development
86-004873
Taxonomy
86-004873
Cobitis
Karyotypes
86-004118
Coelorhynchus fasciatus
Foods/Feeding
86-001676
Coelorinchus aspercephalus
Competition
86-000660
Foods/Feeding
86-000661
Foods/Feeding/Selectivity
86-000660
Colisa fasciata
Enzymes
86-003994
Reproduction
86-003994
Reproductive System
86-003994
Colisa fasciatus
Selenium
86-003153
Trace Metals
86-003153
Vanadium
86-003153
Colossoma mitrei
Culture/Propagation
86-003432
Induced Maturation
86-003432
Conger oceanicus
Habitat Selection
86-001566
Coregonidae
Cage Culture
86-005478
Culture/Propagation
86-004238
86-005478
86-005579
Habitat Selection
86-004202
Hybridization
86-001541
Life History/General
86-004238
Management/Research--General
86-004238
Management/Research--Lakes
86-005478
86-005579
Metabolic Rates
86-001414
Parasites/Diseases
86-004937
Pond Culture
86-005478

...CONTINUED...
Coregonidae
Stocking/Introductions
86-005478
86-005579
Coregonus
Abundance/Factors of
86-004364
Age/Growth
86-004345
86-005479
Bioenergetics
86-001415
Cage Culture
86-003391
86-003395
86-003409
Culture/Propagation
86-003391
86-003395
86-003400
86-003409
86-003544
Digestion Rates
86-004521
Egg Survival
86-004391
Electrophoresis
86-004154
Electroshock
86-003954
Feeding Experiments
86-003544
Fertilization/Soil and Water
86-003400
Foods/Feeding
86-000664
86-004521
86-004546
Hatching Time
86-003954
Heavy Metals
86-001904
Invertebrate Forage
86-003544
Lead
86-001904
Management/Research--Lakes
86-005470
86-005486
Mortality Factors
86-001769
Mortality Rates
86-005479
Parasites/Diseases
86-005060
Pond Culture
86-003391
Population Studies
86-004345
86-004364
Predator/Prey Relationships
86-004546
Protein Synthesis
86-003882
Spawning
86-004391
Stocking/Introductions
86-005470
86-005479
86-005486
Supplemental Stocking
86-005470
86-005486
Tank Culture
86-003391

...CONTINUED...
Coregonus
Temperature
86-003882
86-005470
Variation Studies
86-004154
Viral Diseases
86-005060
Viral Hemorrhagic Septicemia
86-005060
Vitellogenin
86-003957
Year Class Strength
86-004345
86-004364
Yield
86-005479
Coregonus albula
Age/Growth
86-004277
Circadian Rhythms
86-004450
Culture/Propagation
86-003245
86-004296
86-004555
Delayed Hatching
86-000015
86-003245
86-004555
Distribution/Vertical
86-004450
86-004451
Early Development
86-000496
Foods/Feeding
86-004277
86-004555
Fry Stocking
86-003245
Habitat Selection
86-004277
86-004451
Harvest
86-001264
Larval Drift
86-004462
Life History/General
86-004246
86-004257
86-004296
Management/Research--General
86-004296
Management/Research--Lakes
86-004257
Management/Research--Marine
86-001264
Meristic Studies
86-000157
Population Studies
86-004246
86-004257
86-004381
Stocking/Introductions
86-000015
86-003245
Survival
86-000015
Temperature
86-000496
86-004451
Thyroid
86-003742
Variation Studies
86-004153

Coregonus albula ladogenesis
Life History/General
86-004246
Population Studies
86-004246
Coregonus artedii
Abundance/Factors of
86-000805
Age/Growth
86-000730
Commercial Fishing
86-001993
Management/Research--Lakes
86-001993
Maturation
86-000602
Population Studies
86-000805
86-001993
Predator/Prey Relationships
86-004554
Coregonus autumnalis migratorius
Blood Chemistry
86-002497
Coregonus clupeaformis
Age/Growth
86-000739
86-004636
Chemoreception
86-001563
Commercial Fishing
86-001228
Fish Stocks
86-000590
Management Research--Lakes
86-000590
Management/Research--Lakes
86-001222
86-001224
86-001228
86-004636
pH
86-005310
Population Studies
86-000590
86-001222
86-001224
86-004636
Predator/Prey Relationships
86-004554
Yield
86-001222
Coregonus hoyi
Abundance/Factors of
86-000804
Competition
86-004500
Foods/Feeding
86-004500
Mortality Factors
86-000804
Survival
86-000804
Coregonus lavaretus
Age/Growth
86-004277
Cage Culture
86-000019
86-002057
86-003402
Cannibalism
86-004215
Culture/Propagation
86-000019
86-000074

...CONTINUED...
Coregonus lavaretus
Culture/Propagation
86-002057
86-002134
86-003243
86-003396
86-003402
86-003545
86-003574
86-005483
86-005620
Delayed Hatching
86-003243
Diets
86-002134
Distribution/Vertical
86-004452
Early Development
86-000496
Electrophoresis
86-000456
Feeding Experiments
86-000074
86-002134
86-003574
Feeds
86-000074
86-003574
Fingerling Stocking
86-005483
86-005484
Foods/Feeding
86-004277
86-004518
Foods/Feeding/Selectivity
86-004516
Fry Production
86-003396
Fry Stocking
86-003243
Habitat Selection
86-004277
86-004452
Identification
86-000835
86-000838
Invertebrate Forage
86-003545
Larval Drift
86-004462
Management/Research--Reservoirs
86-005620
Marking/Tagging
86-001165
Maturation
86-000019
Mouth Parts
86-000835
Nutrition
86-003545
Parasites/Diseases
86-000847
Pond Culture
86-005483
86-005620
Population Studies
86-002729
Predator/Prey Relationships
86-000698
Starvation
86-003396
Stocking/Introductions
86-003243
86-005483
86-005484

...CONTINUED...
Coregonus lavaretus
Stocking/Introductions
86-005620
Temperature
86-000496
Tetracycline
86-001165
Toxic Algae
86-003126
Coregonus lavaretus macrophthalmus
Fish Stocks
86-003787
Meristic Studies
86-003787
Coregonus lavaretus wartmanni
Fish Stocks
86-003787
Meristic Studies
86-003787
Coregonus muksun
Bacterial Diseases
86-002955
Biomass
86-000589
Enteric Redmouth Disease
86-002955
Parasites/Diseases
86-002955
Population Studies
86-000589
Production
86-000589
Yersinia ruckeri
86-002955
Coregonus nasus
Acanthocephala
86-000935
Foods/Feeding
86-000706
Identification
86-000835
86-000838
Marking/Tagging
86-000631
Mouth Parts
86-000835
Movements
86-000631
Parasites/Diseases
86-000860
86-000935
Telemetry
86-000631
Coregonus peled
Bacterial Diseases
86-002955
Cage Culture
86-000016
86-003402
Culture/Propagation
86-000016
86-002134
86-003402
86-005620
Diets
86-002134
Enteric Redmouth Disease
86-002955
Feeding Experiments
86-002134
Management/Research--Reservoirs
86-005620
Maturation
86-000016
Parasites/Diseases
86-002955

...CONTINUED...
Coregonus peled
Pond Culture
86-005620
Stocking/Introductions
86-005620
Yersinia ruckeri
86-002955
Coregonus sardinella
Parasites/Diseases
86-004931
Variation Studies
86-004157
Coregonus schinzi palea
Culture/Propagation
86-000065
86-000066
Feeding Experiments
86-000065
86-000066
Feeds
86-000065
86-000066
Coregonus schinzi pallea
Culture/Propagation
86-003534
86-003555
Diets
86-003534
Feeding Experiments
86-003534
86-003555
Feeds
86-003555
Metabolic Rates
86-003864
Coris julis
Endocrinology
86-002493
Hormones
86-002493
Reproduction
86-002493
Corvina carouna
Taxonomy
86-000828
Corydoras
Aquariums
86-000093
Body Form
86-001391
Culture/Propagation
86-000093
Variation Studies
86-001391
Corydoras adolfoi
Aquariums
86-001327
Culture/Propagation
86-001327
Corydoras pygmaeus
Aquariums
86-003601
Culture/Propagation
86-003601
Corynopoma riisei
Aquariums
86-003604
Culture/Propagation
86-003604
Coryphaena equiselis
Age/Growth
86-002837
Coryphaena hippurus
Age/Growth
86-002837

...CONTINUED...
Coryphaena hippurus
Culture/Propagation
86-002118
86-002163
Diets
86-002163
Feeding Experiments
86-002163
Tank Culture
86-002118
Coryphaenoides rupestris
Distribution/Geographical
86-004323
Fish Stocks
86-004320
Population Studies
86-004323
Coryphaenoides subserrulatus
Distribution/Geographical
86-000782
Cottidae
Blood Chemistry
86-002389
Body Form
86-000173
86-001392
Early Development
86-003794
Electrophoresis
86-002389
Identification/Larvae
86-003794
Cottocomephorus inermis
Early Development
86-002746
Spawning
86-002746
Cottus
Chlorinated Hydrocarbons
86-005188
Escape Behavior
86-004183
Leeches
86-000936
Parasites/Diseases
86-000936
Predator/Prey Relationships
86-004183
Cottus aleuticus
Distribution/Factors of
86-005585
Habitat Selection
86-005585
Population Studies
86-005585
Cottus bairdi
Acoustico-Lateralis System
86-001445
Bioenergetics
86-002350
86-002351
Embryology
86-002350
86-002351
Hybridization
86-001547
Osmoregulation
86-002302
Parasites/Diseases
86-001797
Cottus cognatus
Distribution/Vertical
86-000644
Foods/Feeding
86-004542

...CONTINUED...
Cottus cognatus
Hybridization
86-001547
Life History/General
86-000556
Cottus gobio
Foods/Feeding
86-002772
Parasites/Diseases
86-004914
Predator/Prey Relationships
86-002772
Spawning
86-001643
Cottus hypselurus
New Species
86-000833
Cottus ricei
Early Development
86-003794
Identification/Larvae
86-003794
Couesius plumbeus
Distribution/Geographical
86-002870
Craterocephalus fluviatilis
Early Development
86-003748
Embryology
86-003748
Reproduction
86-003748
Crenichthys baileyi grandis
Management/Research--General
86-001934
Stocking/Introductions
86-001934
Crossochilus bamaensis
Dactylogyrus crossocheili
86-003022
Parasites/Diseases
86-003022
Trematodes
86-003022
Ctenopharyngodon idella
Aquatic Plant Control
86-000001
86-000002
86-000004
86-003372
86-004358
Biochemical Composition
86-002549
Blood Chemistry
86-001439
Caudal Neurosecretory System
86-004077
Chromosome Studies
86-004092
Culture/Propagation
86-000029
86-000069
86-001318
86-002096
86-003417
86-003452
86-003475
86-004098
Digestive System
86-003949
86-003950
Digestive System/Bacterial Flora
86-000396
86-003948
86-003949

...CONTINUED...
Ctenopharyngodon idella
Digestive System/Bacterial Flora
86-003950
Electrophoresis
86-000445
Enzymes
86-003949
Feeding Experiments
86-000069
Feeds
86-000069
86-001318
Fertilization/Soil and Water
86-000029
86-003475
Foods/Feeding
86-000001
Hybridization
86-000004
Immune Response
86-000191
86-004077
Induced Maturation
86-002096
Karyotypes
86-004092
Nitrogen Metabolism
86-002549
Parasites/Diseases
86-004926
86-004930
86-004935
86-005047
Ploidy Levels
86-004096
Polyculture
86-000029
Polyploidy
86-004098
86-004155
Regeneration
86-002548
Reproductive System
86-002548
Rhobdovirus
86-005047
Temperature Selection
86-000472
Triploid Fish
86-000004
86-004098
Trophic Relationships
86-004358
Viral Diseases
86-005047
Ctenurella
Mouth Parts
86-001770
Paleontology
86-001770
Cubanichthys cubensis
Aquariums
86-000092
Culture/Propagation
86-000092
Eggs
86-003738
Culaea inconstans
Age/Growth
86-004225
Life History/General
86-004225
Cyclopteridae
Distribution/Geographical
86-001628

...CONTINUED...
Cyclopteridae
Early Development
86-003677
Spawning
86-001628
Cyclopterus lumpus
Buoyancy Adjustment
86-002637
Digestive System
86-004056
Early Development
86-004056
Eggs
86-003697
Cyclothone alba
Distribution/Vertical
86-004275
Life History/General
86-004275
Cynoglossus semifasciatus
Age/Growth
86-000742
Scales
86-000742
Cynolebias boitonei
Aquariums
86-003598
Culture/Propagation
86-003598
Cynoptaminae
Karyotypes
86-001529
Cynoscion nebulosus
Culture/Propagation
86-002124
Fingerling Production
86-002124
Induced Maturation
86-000412
Management/Research--Marine
86-001607
86-003212
Pond Culture
86-002124
Population Studies
86-001607
Spawning
86-002745
Cynoscion xanthulus
Culture/Propagation
86-002125
Induced Maturation
86-002125
Cyprinella
Meristic Studies
86-000162
Taxonomy
86-004869
Variation Studies
86-000162
Cyprinidae
Aeromonas hydrophila
86-002962
Aflatoxins
86-000978
Bacterial Diseases
86-002962
Benzidine
86-000978
Benzo(a)pyrene
86-000978
Dentition
86-003692
Egg Size
86-002228

...CONTINUED...
Cyprinidae
Embryology
86-000159
Evolution
86-004859
Goussia carpelli
86-005023
Home Range
86-002649
Karyotypes
86-000455
Meristic Studies
86-002228
Methylcholanthrene
86-000978
Orientation/Homing
86-002649
Oroclor
86-000978
Parasites/Diseases
86-002962
86-005023
Polyploidy
86-002603
Protozoan Diseases
86-005023
Reproductive System
86-002233
Skeletal System
86-001356
86-001357
86-003692
Speciation
86-004859
Taxonomy
86-001356
86-001357
86-001765
86-001766
86-004859
Cyprinion acinaces
Culture/Propagation
86-002021
Cyprinis carpio
Ichthyophthiriasis
86-002971
Ichthyophthirius multifiliis
86-002971
Parasites/Diseases
86-002971
Protozoan Diseases
86-002971
Cyprinodon macularius
Abundance/Factors of
86-004774
Competition
86-004193
86-004774
Management/Research--General
86-005477
Status
86-004354
Stocking/Introductions
86-005477
Cyprinodon macularius californiensis
Spawning
86-004415
Cyprinodon nevadensis mionectes
Status
86-000811
Cyprinodon pachycephalus
New Species
86-001775
Cyprinodon variegatus
Carcinogens
86-005265
...CONTINUED...
Cyprinodon variegatus
Foods/Feeding
86-001664
86-004613
Mutagens
86-001525
Parasites/Diseases
86-005265
Taxonomy
86-002908
Trophic Relationships
86-001664
Tumors
86-005265
Cyprinodon variegatus hubbsi
Habitat Selection
86-002685
Status/Florida
86-002685
Zoogeography
86-002685
Cyprinodontidae
Distribution/Geographical
86-004722
Evolution
86-004114
Speciation
86-004114
Taxonomy
86-004114
Cyprinodontiformes
Early Development
86-003676
Cyprinus
Hybridization
86-001532
Cyprinus carpio
Abundance/Factors of
86-004760
Aeromonas hydrophila
86-002951
86-004980
Age/Growth
86-000749
86-001698
86-002831
86-003473
86-004638
Amino Acids
86-002365
86-002484
86-003853
Ammonia
86-001891
86-003152
86-005248
86-005264
86-005329
Antigens
86-000303
Arsenic
86-005212
ATP
86-002397
Bacterial Diseases
86-002951
86-004980
Benthiocarb
86-005269
Benthos
86-003470
Bile Composition
86-004023
Biochemical Composition
86-000432

...CONTINUED...
Cyprinus carpio
Biochemical Composition
86-000434
86-002460
86-003558
Bioenergetics
86-003825
Biomagnification
86-000940
86-003080
86-005212
Blood Chemistry
86-000248
86-000249
86-000250
86-000345
86-000346
86-001454
86-002322
86-002365
86-002374
86-002419
86-002484
86-002526
86-003451
86-003459
86-003920
86-003930
86-004029
Blood Sampling
86-003046
Body Form
86-000168
Bothriocephalus gowkongensis
86-003052
Bothriocephalus opsariichthydis
86-003024
Cadmium
86-001002
86-003163
86-003164
86-005225
86-005291
Cardio-Vascular System
86-000405
86-001511
86-002340
86-002541
Catecholamines
86-002540
Caudal Neurosecretory System
86-004077
Cestodes
86-003024
86-003052
Chloride Cells
86-000152
Collagen
86-004027
Copper Sulfate
86-000981
Cortisol
86-002419
Culture/Propagation
86-000043
86-000068
86-000071
86-000072
86-000077
86-000249
86-000606
86-001292
86-002076
86-002089
86-002096

...CONTINUED...
Cyprinus carpio
Culture/Propagation
86-002151
86-002153
86-003413
86-003415
86-003417
86-003418
86-003423
86-003426
86-003429
86-003440
86-003447
86-003451
86-003452
86-003459
86-003460
86-003464
86-003470
86-003471
86-003472
86-003473
86-003476
86-003477
86-003480
86-003537
86-003558
86-003566
86-003568
86-003569
86-003572
86-003573
86-003580
86-003583
86-003584
86-003588
86-003591
86-003935
86-004113
86-004125
86-004920
Cyanide
86-003152
Diets
86-000077
86-002151
86-003558
86-003566
86-003588
Digestion Rates
86-001665
Digestive System
86-002432
86-002527
86-003970
Digestive System/Bacterial Flora
86-000396
Dinitrobenzene
86-003118
DNA
86-001401
Early Development
86-000496
Eggs
86-002256
Electrophoresis
86-002620
Electrophysiology
86-000253
Embryology
86-000152
86-001381
Endocrinology
86-000384
86-002419

...CONTINUED...
Cyprinus carpio
Endocrinology
86-002450
86-002577
86-003838
86-003944
86-004028
Enzymes
86-000071
86-000281
86-000411
86-001452
86-002427
86-002526
86-002527
86-003931
Epidermal Lesions
86-001845
Epitheliocystis
86-002981
Eulan WA New
86-003124
Feeding Experiments
86-000077
86-002151
86-002153
86-003537
86-003558
86-003566
86-003568
86-003569
86-003573
86-003580
86-003583
86-003584
Feeds
86-000068
86-000071
86-000077
86-002153
86-003447
86-003537
86-003569
86-003580
86-003584
86-003588
Fertilization/Soil and Water
86-003447
Food Conversion Efficiency
86-003568
Foods/Feeding
86-001665
86-004503
86-004594
Foods/Feeding/Selectivity
86-004531
Fry Production
86-000043
86-003573
Fungal Diseases
86-005018
Fungicides
86-001040
Genomes
86-004101
Gill Diseases
86-003046
Gill Necrosis
86-005318
Goussia
86-005044
Gynogenesis
86-004113
86-004125
Gyrodactylus katharineri
86-005089

...CONTINUED...
Cyprinus carpio
Gyrodactylus lotae
86-005089
Gyrodactylus lucii
86-005089
Gyrodactylus schulmani
86-003053
Habitat Selection
86-004169
Handling Mortality
86-000249
Hatchery Design
86-003429
Heavy Metals
86-000940
86-001002
86-003163
86-003164
86-005212
86-005225
86-005291
Herbicides
86-000981
86-005269
Hormones
86-002450
Hybridization
86-000453
Hypothalamic-Hypophyseal System
86-004028
Hypoxia
86-004029
Ichthyophthirius multifiliis
86-002973
Immune Response
86-002521
86-002575
86-002951
86-004077
Immunization
86-004980
Impoundment
86-004638
Induced Maturation
86-000606
86-001292
86-002076
86-002096
86-003418
86-003423
Industrial Wastes
86-003010
Insecticides
86-000981
86-003080
86-005260
Invertebrate Forage
86-003572
Iron
86-002322
Karyotypes
86-001544
86-004101
Lactate Dehydrogenase
86-002620
Light
86-002076
86-002346
86-002347
Lipid Composition
86-003943
Lipid Metabolism
86-000244
86-003910
86-003931

...CONTINUED...
Cyprinus carpio
Lymphatic System
86-000304
Magnesium
86-000244
Malate Dehydrogenase
86-002619
Management/Research--Rivers and Streams
86-004760
Maturation
86-002076
86-002346
86-002427
86-002450
86-003935
86-004059
86-004059
Mercury
86-005212
Metabolic Rates
86-000168
86-000384
Methanol
86-005260
Methidation
86-000981
Morphine
86-003941
Mouth Parts
86-002277
86-004594
Musculature
86-000434
86-001452
Myxobolus encephalicus
86-005029
Nervous System
86-000253
Nitrite
86-003152
Nutrition
86-000072
86-003566
86-003568
86-003583
86-003584
Olfaction
86-000289
Opioid Peptides
86-003941
Organochlorines
86-003080
Osmoregulation
86-002419
Paraquat
86-000981
Parasites/Diseases
86-000846
86-000894
86-001836
86-001845
86-002951
86-002972
86-002973
86-002981
86-002986
86-003010
86-003024
86-003027
86-003046
86-003052
86-003053
86-004916
86-004920

...CONTINUED...
Cyprinus carpio
Parasites/Diseases
86-004926
86-004937
86-004980
86-005018
86-005029
86-005039
86-005044
86-005047
86-005089
86-005318
Pentachlorophenol
86-001040
pH
86-005318
Phagocytosis
86-004049
Phenols
86-003152
86-005260
Pigments
86-002256
Piscicides
86-003168
Plankton Populations
86-003476
86-003477
Polyculture
86-002089
86-003426
86-003447
86-003464
Polymorphism
86-002619
86-002620
Pond Culture
86-002089
86-003415
86-003426
86-003451
86-003459
86-003464
86-003470
86-003471
86-003476
86-003477
86-003480
86-003572
86-003573
Population Studies
86-004760
Protein Synthesis
86-000244
86-001465
86-002405
Protozoan Diseases
86-002972
86-002973
86-002981
86-002986
86-005029
86-005039
86-005044
Reproduction
86-000606
86-002346
86-002347
86-002450
Reproductive System
86-002427
86-003838
Respiration
86-002340
Rhobdovirus
86-005047

...CONTINUED...
Cyprinus carpio
Rice-Fish Culture
86-003413
Rotenone
86-003168
Salinity
86-000152
Saprolegnia
86-005018
Selenium
86-005212
Sewage Effluents
86-003460
Skeletal System
86-000432
Spawning
86-000606
86-002346
Sphaerospora
86-002972
Sphaerospora renicola
86-005039
Spring Viremia
86-000894
Starvation
86-002397
Steroids
86-002151
86-003935
Stress
86-000193
86-000249
Supplemental Feeding
86-003573
Swimbladder Disease
86-005039
Taste Reception
86-002277
Temperature
86-000496
86-001452
86-001465
86-001698
86-002076
86-002340
86-002346
86-002347
86-002397
86-003415
86-003473
86-003825
86-003935
86-004028
Toluene
86-005260
Toxic Gill Necrosis
86-003046
Trace Metals
86-005212
Transportation
86-003591
Trematodes
86-001836
86-003053
86-005089
Trypanoplasma borelli
86-002986
Tumors
86-003010
86-003027
Viral Diseases
86-000894
86-005047
Vision
86-000253

...CONTINUED...
Cyprinus carpio
Vision
86-002251
86-002573
Water Quality
86-003440
Whirling Disease
86-002973
Zinc
86-000940
Cyprinus carpio chilia
Karyotypes
86-001544
Cyprinus carpio nudus
Amino Acids
86-003853
Cyprinus carpio specularis
Foods/Feeding
86-000700
Length-Weight Relationships
86-000700
Cyprinus longipectralis
Karyotypes
86-001544
Cypselurus heterus doderleini
Activity Patterns
86-002647
Movements
86-002647
Schooling Behavior
86-002647
Cypselurus opisthopus hiraii
Activity Patterns
86-002647
Movements
86-002647
Schooling Behavior
86-002647
Danio devario
Bacterial Diseases
86-000864
Edwardsiella ictaluri
86-000864
Euteric Septicemia of Catfish
86-000864
Parasites/Diseases
86-000864
Danionella
New Genus
86-004889
Danionella translucida
New Species
86-004889
Dascyllus aruanus
Abundance/Factors of
86-000508
Aggressive Behavior
86-000508
Aquariums
86-003597
Culture/Propagation
86-003597
Dasyatis akajei
Caudal Neurosecretory System
86-000348
Derichthyidae
Morphology
86-002246
Spawning
86-002246
Dicentrarchus labrax
Abnormalities
86-005080
Age/Growth
86-000237

...CONTINUED...
Dicentrarchus labrax
Amino Acids
86-000406
Biochemical Composition
86-000237
86-004025
Blood Chemistry
86-000237
86-003850
Brackishwater Culture
86-003515
Cage Culture
86-003491
86-003508
86-003516
Carbohydrate Metabolism
86-003852
Carnitine
86-001309
Culture/Propagation
86-000051
86-000080
86-001309
86-002106
86-002116
86-002120
86-002149
86-002150
86-003485
86-003488
86-003490
86-003491
86-003492
86-003493
86-003495
86-003498
86-003499
86-003500
86-003502
86-003503
86-003508
86-003509
86-003510
86-003512
86-003513
86-003515
86-003516
86-003519
86-003520
86-003521
86-003522
86-003523
86-003525
86-003527
86-003530
Diets
86-003525
Electrophoresis
86-004099
Endocrinology
86-001355
Enzymes
86-001420
86-002372
86-003860
Feeders
86-003527
Feeding Experiments
86-000080
86-002149
86-002150
86-003530
Feeds
86-000080
86-003530

...CONTINUED...
Dicentrarchus labrax
Fertilization
86-003488
Fingerling Production
86-002106
Foods/Feeding
86-004583
Foods/Feeding/Selectivity
86-004526
Forage Production
86-003492
Fry Production
86-002120
86-003500
86-003502
86-003509
86-003510
86-003519
86-003520
86-003521
86-003530
Gamete Storage
86-003488
Gas Bubble Disease
86-000914
Gas Supersaturation
86-000914
Growth
86-003513
86-003521
Growth Depressents
86-001309
Growth Stimulants
86-001309
Harvest
86-003493
Hatchery Design
86-003503
Incubation
86-003498
Induced Maturation
86-000051
86-003523
Lipid Metabolism
86-002487
Management/Research--Marine
86-003493
Maturation
86-003490
Mortality Factors
86-003522
Nutrition
86-002487
86-003525
Osmoregulation
86-003850
Oxygen Consumption
86-003502
Parasites/Diseases
86-000914
86-004932
86-005080
Pituitary
86-002225
Salinity
86-000237
86-002120
86-003510
Spawning Cycle Regulation
86-003485
86-003499
Swimbladder
86-002226
Tank Culture
86-003491

...CONTINUED...
Dicentrarchus labrax
Tank Culture
86-003495
86-003522
Temperature
86-000914
86-002120
86-003513
86-003522
Valliculture
86-003515
Variation Studies
86-004099
Diceratias bispinosus
Predator/Prey Relationships
86-004576
Diodontidae
Aquariums
86-001330
Culture/Propagation
86-001330
Dionda episcopa
Spawning
86-000626
Diplocraterion
Paleontology
86-001774
Diplodus sargus
Cage Culture
86-003516
Culture/Propagation
86-003493
86-003500
86-003516
86-003527
Feeders
86-003527
Foods/Feeding/Selectivity
86-004530
Fry Production
86-003500
Harvest
86-003493
Management/Research--Marine
86-003493
Maturation
86-003974
Trophic Relationships
86-004530
Diplodus vulgarus
Culture/Propagation
86-003500
Fry Production
86-003500
Diplotaxodon greenwoodi
New Species
86-002912
Dipnorhynchus kurikae
Paleontology
86-002892
Dissostichus marosoni
Temperature
86-000500
Vision
86-000500
Dissostichus mawsoni
Body Form
86-004175
Bouyancy Adjustment
86-004175
Mammal Predation
86-004777
Dorosoma
Fish Control/Removal
86-001158

...CONTINUED...
Dorosoma
Management/Research--Ponds
86-001158
Management/Research--Reservoirs
86-001158
Dorosoma cepedianum
Acanthocephala
86-001838
Flow Regimes
86-000562
Foods/Feeding
86-001681
Foods/Feeding/Selectivity
86-004568
Impingement/Entrainment
86-001975
Karyotypes
86-000440
Life History/General
86-000562
Nets/Netting
86-005522
Parasites/Diseases
86-001838
Power Plants
86-001975
Predator/Prey Relationships
86-004597
Screens
86-001975
Tanaorhamphus longirostris
86-001838
Dorosoma petenense
Acanthocephala
86-001838
Foods/Feeding
86-002809
Karyotypes
86-000440
Nets/Netting
86-005522
Parasites/Diseases
86-001838
Predator/Prey Relationships
86-002809
Tanaorhamphus longirostris
86-001838
Dorsoma cepedianum
Fish Passage
86-001975
Dussumieria acuta
Population Studies
86-000595
Eigenmannia
Electrical Communication
86-003915
Electrophysiology
86-001458
86-004019
Nervous System
86-003915
Eigenmannia virescens
Musculature
86-003686
Swimming Performance
86-003686
Elassoma
Management/Research--General
86-005480
Reintroductions
86-005480
Electrona antarctica
Foods/Feeding
86-004615
Trophic Relationships
86-004615

Electrona carlsbergi
Life History/General
86-000564
Electrophorus electicus
Electric Organs
86-000174
Electrophorus electricus
Electric Organs
86-001486
Eleginus gracilis
Antifreeze Production
86-002314
86-002315
Eleginus navaga
Behavior
86-004185
Foods/Feeding
86-004621
Eleotridae
Buoyancy Adjustment
86-004184
Elopiformes
Early Development
86-003782
Taxonomy
86-004897
Elops saurus
Distribution/Geographical
86-004690
Foods/Feeding
86-001664
Karyotypes
86-000440
Trophic Relationships
86-001664
Embiotoca jacksoni
Foods/Feeding
86-004522
Foods/Feeding/Selectivity
86-000673
Habitat Selection
86-004522
Embiotoca lateralis
Artificial Reefs
86-003192
Foods/Feeding
86-003192
86-004522
Foods/Feeding/Selectivity
86-000673
Habitat Selection
86-004522
Embiotocidae
Foods/Feeding
86-004505
Mouth Parts
86-002253
Emmelichthys nitidus
Life History/General
86-002696
Engraulidae
Population Studies
86-001535
86-004343
Salinity
86-004343
Variation Studies
86-001535
86-004343
Engraulis
Currents
86-000648
Distribution/Factors of
86-000648
Population Studies
86-004328
Engraulis encrasicholus ponticus
Biomass
86-004318
Population Studies
86-004318
Engraulis encrasicolus
Population Studies
86-002709
Engraulis japonicus
Distribution/Factors of
86-004732
Egg Drift
86-004732
Foods/Feeding/Selectivity
86-000704
Ocean Fronts
86-004732
Temperature
86-004732
Engraulis mordax
Abundance/Factors of
86-004751
86-004773
Age/Growth
86-001703
Atresia
86-000275
Biomass
86-001612
86-004350
Bird Predation
86-004773
Egg Drift
86-001623
Egg Production
86-000583
Egg Survival
86-001623
El Nino
86-004751
Life History/General
86-004269
Population Studies
86-000583
86-004350
Predator/Prey Relationships
86-004603
Reproductive System
86-000275
Schooling Behavior
86-000489
Spawning
86-004350
Vision
86-000489
Enneacanthus gloriosus
Age/Length Composition
86-002715
Enneacanthus obesus
Abundance/Factors of
86-004779
Competition
86-004779
Habitat Selection
86-004779
Spawning Behavior
86-004779
Entosphenus tridentatus
Immune Response
86-002483
Epigonus denticulatus
Meristic Studies
86-002245
Epigonus pectinifer
Distribution/Seasonal
86-004455

...CONTINUED...
Epigonus pectinifer
Distribution/Vertical
86-004455
Epinephelus guaza
Foods/Feeding
86-004595
Epinephelus quernus
Foods/Feeding
86-004591
Epinephelus tauvina
Age/Growth
86-002689
86-002835
Cage Culture
86-002112
Culture/Propagation
86-002105
86-002112
86-002689
Egg Collection
86-002105
Fingerling Production
86-002105
Management/Research--Marine
86-002728
Maturation
86-002689
Population Studies
86-002728
Spawning
86-002689
Epiplatys spilargyreius
Predator/Prey Relationships
86-002790
Eptatretidae
Fish Lists/Keys
86-004903
Eptatretidus longipinnis
New Species
86-004903
Eptatretus burgeri
Chromosome Elimination
86-002601
Cloacal Gland
86-000175
Endocrinology
86-002547
Karyotypes
86-002601
Sexual Dimorphism
86-000175
Eptatretus cirrhatus
Cardio-Vascular System
86-002563
Eptatretus mendozai
New Species
86-000823
Eptatretus stouti
Excretory System
86-002502
Olfaction
86-000166
Erimyzon sucetta
Acanthocephala
86-005076
Caryophyllaeidae
86-001821
Cestodes
86-001821
Isoglaridacris multivitellaria
86-001821
Neoechinorhynchus prolixoides
86-005076
Neoechinorhynchus robertbaueri
86-005076

...CONTINUED...
Erimyzon sucetta
Parasites/Diseases
86-001821
86-005076
Erpetoichthys calabaricus
Blood Chemistry
86-000197
Respiration
86-000197
Erythrocles schlegeli
Life History/General
86-000549
Esocoidei
Early Development
86-004866
Taxonomy
86-004866
Esox
Escape Behavior
86-004612
Predator/Prey Relationships
86-004612
Esox americanus vermiculatus
Biochemical Composition
86-002406
Identification/Larvae
86-004864
Musculature
86-002406
Esox lucius
Activity Patterns
86-001164
Aromatic Organohalogens
86-003074
Arsenic
86-005212
ATP
86-003958
Bioenergetics
86-001250
Biomagnification
86-000956
86-003074
86-003078
86-005190
86-005212
Biomass
86-000589
Blood Chemistry
86-000376
Cage Culture
86-003395
86-003409
Cannibalism
86-004511
Carbohydrate Metabolism
86-000375
Cestodes
86-001852
Chlorinated Hydrocarbons
86-005190
Culture/Propagation
86-000023
86-003395
86-003409
86-003448
86-003481
86-003560
DDT
86-003078
Diets
86-003560
Digestive System
86-002449
Electrofishing
86-003127

...CONTINUED...
Esox lucius
Enzymes
86-002449
86-003958
Eulan WA New
86-003124
Exercise
86-000375
86-001501
Feeding Experiments
86-003560
Fertilization/Soil and Water
86-003448
Fish Control/Removal
86-003127
Foods/Feeding
86-000686
86-004511
Gyrodactylus katharineri
86-005089
Gyrodactylus lotae
86-005089
Gyrodactylus lucii
86-005089
Heavy Metals
86-000956
86-003074
86-005190
86-005212
Hemorrhagic Septicemia
86-005059
Hooking Mortality
86-000375
Identification/Larvae
86-004864
Insecticides
86-003078
Life History/General
86-000538
86-000540
86-001250
Management/Research--General
86-000023
Management/Research--Ponds
86-003307
Management/Research--Reservoirs
86-001250
Marking/Tagging/General
86-001164
Mercury
86-000956
86-005212
Movements
86-004460
Musculature
86-003958
Nursery Areas
86-003448
Nutrition
86-003560
Parasites/Diseases
86-001852
86-005059
86-005089
Polychlorinated Biphenyls
86-003078
Population Studies
86-000589
86-000593
86-004316
86-004336
Predator Control
86-003127
Production
86-000589

...CONTINUED...
Esox lucius
Pulp Mill Effluents
86-003157
Selenium
86-005212
Stocking/Introductions
86-001250
86-003307
Stress
86-000375
86-000376
86-001501
Telemetry
86-001164
Temperature
86-003560
Trace Metals
86-005212
Trematodes
86-005089
Triaenophorus crassus
86-001852
Viral Diseases
86-005059
Year Class Strength
86-004336
Esox masquinongy
Biochemical Composition
86-002406
Creel Census
86-001148
Culture/Propagation
86-003481
86-003560
Diets
86-003560
Feeding Experiments
86-003560
Harvest
86-001148
Home Range
86-004459
Identification/Larvae
86-004864
Life History/General
86-001588
Management/Research--General
86-001588
Management/Research--Ponds
86-003307
Management/Research--Rivers and Streams
86-001148
Movements
86-004459
Musculature
86-002406
Nutrition
86-003560
Orientation/Homing
86-004459
Population Studies
86-000582
86-000588
Stocking/Introductions
86-003307
Temperature
86-003560
Esox niger
Foods/Feeding
86-004510
Etelis carbunculus
Activity Patterns
86-004222
Habitat Selection
86-004222

...CONTINUED...
Etelis carbunculus
Maturation
86-004395
Spawning
86-004395
Etheostoma
Body Form
86-003771
Etheostoma blennioides
Competition
86-002678
Distribution/Seasonal
86-002766
Habitat Selection
86-002645
86-002678
Oxygen
86-002766
Substrate Composition
86-002766
Temperature
86-000268
86-001444
86-002766
Etheostoma caeruleum
Aquariums
86-000088
Competition
86-002678
Culture/Propagation
86-000088
Distribution/Seasonal
86-002766
Habitat Selection
86-002645
86-002678
Heavy Metals
86-001020
Life History/General
86-002683
Mercury
86-001020
Oxygen
86-002766
Substrate Composition
86-002766
Temperature
86-000268
86-001444
86-002766
Etheostoma cragini
Age/Growth
86-004291
Distribution/Geographical
86-002865
86-004691
Life History/General
86-004291
Population Studies
86-004291
Spawning
86-004291
Etheostoma flabellare
Distribution/Seasonal
86-002766
Early Development
86-001380
Egg Size
86-001380
Habitat Selection
86-002645
Meristic Studies
86-002257
Oxygen
86-002766
...CONTINUED...
Etheostoma flabellare
Spawning
86-001633
Substrate Composition
86-002766
Taxonomy
86-002257
Temperature
86-000268
86-001444
86-002766
Variation Studies
86-002257
Etheostoma juliae
Age/Growth
86-002687
Reproduction
86-002687
Spawning
86-002687
Etheostoma lynceum
Taxonomy
86-004818
Etheostoma maculatum
Distribution/Geographical
86-002844
Etheostoma microperca
Distribution/Geographical
86-004691
Etheostoma nigrum
Early Development
86-001380
Egg Size
86-001380
Life History/General
86-004284
Spawning
86-001633
Taxonomy
86-000817
Etheostoma olmstedi
Spawning
86-000601
Taxonomy
86-000817
Etheostoma proeliare
Early Development
86-003791
Etheostoma rufilineatum
Life History/General
86-000561
Etheostoma spectabile
Competition
86-002678
Egg Size
86-001472
Fecundity
86-001472
Habitat Selection
86-002678
Etheostoma tetrazonum
Competition
86-002678
Habitat Selection
86-002678
Etheostoma trisella
Life History/General
86-001595
Etheostoma ulocentra
Life History/General
86-001598
Taxonomy
86-001598
Etheostoma whipplei
Meristic Studies
86-004884

...CONTINUED...
Etheostoma whipplei
Taxonomy
86-004884
Variation Studies
86-004884
Etheostoma zonale
Competition
86-002678
Habitat Selection
86-002678
Taxonomy
86-004818
Etilis carbunculus
Light
86-004222
Etmopterus frontimaculatus
Taxonomy
86-002893
Etmopterus princeps
Ommatokoita
86-005106
Parasites/Diseases
86-005106
Parasitic Copepods
86-005106
Etmopterus schmidti
New Species
86-002893
Etroplus maculatus
Chlorine
86-003154
Life History/General
86-001587
Eumegistus illustris
Distribution/Geographical
86-002866
Eutaeniophoridae
Early Development
86-000137
Euteleostei
Taxonomy
86-004821
Euthynnus alleteratus
Schooling Behavior
86-004164
Euthynnus alletteratus
Foods/Feeding
86-000682
Eutropus
Distribution/Geographical
86-001773
Fish Lists/Keys
86-001773
Taxonomy
86-001773
Evermannellidae
Early Development
86-004851
Taxonomy
86-004851
Evermannichthys
Meristic Studies
86-001366
Variation Studies
86-001366
Evynnis japonica
Foods/Feeding
86-000703
Exoglossum maxillingua
Eye-picking
86-002636
86-002660
Mimicry
86-002636
Fugu
Toxins
86-000366

...CONTINUED...
Fugu
Toxins
86-000367
Fundulus
Competition
86-002677
Endocrinology
86-000311
Evolution
86-002918
Nematodes
86-001844
Parasites/Diseases
86-001844
Reproduction
86-000311
Taxonomy
86-002918
Fundulus grandis
Baitfish Culture
86-002102
Carcinogens
86-005265
Culture/Propagation
86-000040
86-000058
86-002102
86-002123
Feeding Experiments
86-000040
86-000058
Fertilization/Soil and Water
86-000040
86-000058
Lunar Influences
86-000611
Parasites/Diseases
86-005265
Pond Culture
86-000040
86-000058
86-002123
Salinity
86-000040
Spawning
86-000611
Taxonomy
86-002908
Tumors
86-005265
Fundulus heteroclitus
Age/Growth
86-002839
Amino Acids
86-002571
Blood Chemistry
86-000236
86-002313
86-002494
86-002578
Cadmium
86-003161
Calcium
86-002488
Chloride Cells
86-002247
86-002466
Competition
86-002839
Digestive System
86-001478
Distribution/Geographical
86-004679
Eggs
86-002216

...CONTINUED...
Fundulus heteroclitus
Electrophoresis
86-000450
Endocrinology
86-002223
86-002488
86-003909
Enzymes
86-000362
86-000368
86-000369
86-002591
86-003899
Excretory System
86-001502
Foods/Feeding
86-002839
86-004613
Heavy Metals
86-001018
86-001030
86-003161
Hormones
86-000236
86-002488
86-002578
Immune Response
86-002378
Life History/General
86-000514
86-002682
Light
86-000404
86-002539
Lunar Influences
86-000609
Maturation
86-000224
86-000404
86-002387
Mercury
86-001030
Osmoregulation
86-000214
86-001502
86-002466
86-002571
86-003909
Pigments
86-000223
Rectal Gland
86-002578
Regeneration
86-003161
Reproduction
86-000224
86-002387
86-002515
86-004033
Reproductive System
86-000430
Research Test Fish
86-002296
86-003060
Spawning
86-000609
86-002755
Stress
86-002378
86-004064
Symposia
86-002682
Temperature
86-000214
86-000293

...CONTINUED...
Fundulus heteroclitus
Temperature
86-002313
86-002539
86-003899
Thermal Shock
86-000293
86-002313
Tides
86-002539
Trophic Relationships
86-002784
Variation Studies
86-000450
86-002216
86-002591
86-002609
Fundulus kansae
Gill Parasites
86-001789
Parasites/Diseases
86-001789
Parasitic Copepods
86-001789
Trematodes
86-001789
Fundulus luciae
Life History/General
86-004241
Fundulus majalis
Life History/General
86-000514
Fundulus parvipinnis
Benzo(a)pyrene
86-003110
Fundulus similis
Escape Behavior
86-004195
Predator/Prey Relationships
86-004195
Spawning
86-004398
Taxonomy
86-002908
Fundulus zebrinus
Population Genetics
86-004095
Gadidae
Early Development
86-004813
Nets/Netting
86-005521
Taxonomy
86-004813
Trawls
86-005521
Gadiformes
Early Development
86-004819
Taxonomy
86-004804
86-004819
Gadus macrocephalus
Abundance/Factors of
86-004780
Age/Growth
86-002827
Foods/Feeding
86-001658
Harvest
86-001194
Predator/Prey Relationships
86-004780
Trawls
86-001194

Gadus merlangus
Fishing Gear
86-005500
Hooks
86-005500
Gadus merlangus euxinus
Biomass
86-004318
Population Studies
86-004318
Gadus morhua
Abundance/Factors of
86-004767
Age/Growth
86-004258
Aromatic Hydrocarbons
86-005280
Biochemical Composition
86-002334
Biomagnification
86-005190
Blood Chemistry
86-003903
Cadmium
86-004001
Calcium
86-002334
Cardio-Vascular System
86-000389
Chlorinated Hydrocarbons
86-005190
Condition Factors
86-002342
Culture/Propagation
86-003535
Diets
86-003535
Digestive System
86-000282
Early Development
86-003705
Egg Identification
86-001276
Eggs
86-004001
Enzymes
86-002342
86-004012
Epidermal Lesions
86-005152
Eutrophication
86-004767
Excretory System
86-003955
Feeding Experiments
86-003535
Feeds
86-003535
Foods/Feeding
86-000653
86-004258
86-004557
86-004578
86-004579
86-004620
Heavy Metals
86-005190
Hexachlorobenzene
86-001907
Hyperplasia
86-005152
Iron
86-002334
Lactate Dehydrogenase
86-004012

...CONTINUED...
Gadus morhua
Movements
86-004470
Musculature
86-003928
Naphthalene
86-001922
Nervous System
86-000282
86-003955
Nutrition
86-002342
Oil
86-001922
86-005158
Osmoregulation
86-004034
Parasites/Diseases
86-005065
86-005066
86-005152
Pollution Avoidance
86-005158
Predator/Prey Relationships
86-004578
Salinity
86-004767
Swimbladder
86-000418
Temperature
86-004767
Variation Studies
86-000460
Viral Diseases
86-005065
86-005066
Viral Erythrocytic Necrosis
86-005065
86-005066
Xylenes
86-005280
Gadus morhua macrocephalus
Liver
86-002234
Gadus morhua marisalbi
Amino Acids
86-000222
Chemoreception
86-000222
Digestive System
86-004056
Early Development
86-003752
86-004056
Electrophysiology
86-002325
Embryology
86-003752
Larval Drift
86-003752
Nervous System
86-000222
86-002325
Olfaction
86-002325
Spawning
86-003752
Gaidropsarus
Taxonomy
86-004904
Gaidropsarus mediterraneus
Chemoreception
86-003740
Fins
86-003740

...CONTINUED...
Gaidropsarus mediterraneus
Karyotypes
86-004151
Variation Studies
86-004151
Gaidropsarus parini
New Species
86-004904
Galaxias
Chlorothalonil
86-001892
Galaxias auratus
Chlorothalonil
86-000991
Fungicides
86-000991
Galaxias maculatus
Chlorothalonil
86-000991
Fungicides
86-000991
Galaxias truttaceus
Chlorothalonil
86-000991
Fungicides
86-000991
Galaxiella pusilla
Sexual Dimorphism
86-003754
Galeichthys caerulescens
Culture/Propagation
86-002705
Life History/General
86-002705
Galeocerdo articus
Morphology
86-000161
Galeocerdo cuvier
Age/Growth
86-004632
Bioenergetics
86-004632
Gambusia
Electrophoresis
86-004107
Variation Studies
86-004107
Gambusia affinis
Abundance/Factors of
86-004762
Age/Growth
86-001696
86-002819
Cadmium
86-005259
Cannibalism
86-004172
Carbofuran
86-003111
Cestodes
86-001848
Clinostomum complanatum
86-005125
Coloration
86-002280
Competition
86-004193
Cyclodiene
86-005330
Floods
86-004762
Foods/Feeding
86-001664
86-004488
Foods/Feeding/Selectivity
86-000663

...CONTINUED...
Gambusia affinis
Heavy Metals
86-005259
Insecticide Resistance
86-005330
Insecticides
86-003111
Lacistorhynchus tenuis
86-001848
Life History/General
86-004292
Maturation
86-001696
Mosquito Control
86-001951
Parasites/Diseases
86-001848
86-005125
86-005259
Pesticides
86-005330
Phenols
86-005321
Pigments
86-002264
Population Studies
86-004762
Predator/Prey Relationships
86-000663
86-004562
Spawning
86-000612
86-001651
86-004172
Status
86-004354
Trematodes
86-005125
Trophic Relationships
86-001664
Gambusia gaigei
Fecundity
86-000273
Status
86-002721
Gambusia heterochir
Masculinization
86-001521
Gambusia marshi
Life History/General
86-000545
Gambusia punctata
Karyotypes
86-000467
Taxonomy
86-000467
Gasterosteiformes
Early Development
86-004826
Taxonomy
86-004826
Gasterosteus aculeatus
Age/Growth
86-000748
Behavior
86-001580
Bird Predation
86-000482
Blood Chemistry
86-000189
Brooding Behavior
86-000627
Cannibalism
86-000510
Circadian Rhythms
86-000190

...CONTINUED...
Gasterosteus aculeatus
Cortisol
86-000189
Distribution/Geographical
86-001737
86-002853
Electrophoresis
86-004158
Endocrinology
86-000207
86-002309
Foods/Feeding/Selectivity
86-004516
Fright Behavior
86-000481
86-000482
86-001555
Life History/General
86-002702
Light
86-000190
Meristic Studies
86-000136
86-000155
86-002274
86-003687
Mortality Factors
86-000627
Orientation/Homing
86-004161
Predator/Prey Relationships
86-000481
86-000482
Reproduction
86-000190
Salinity
86-004161
Sexual Dimorphism
86-004158
Social Behavior
86-002667
Spawning
86-000190
86-000627
86-002702
Spawning Behavior
86-004433
86-004570
Steroids
86-000207
Swimming Performance
86-004219
Territorial Behavior
86-004433
86-004570
Variation Studies
86-000136
86-000156
86-002274
86-003687
Foods/Feeding
86-004570
Gasterosteus wheatlandi
Cannibalism
86-000510
Fright Behavior
86-001555
Orientation/Homing
86-004161
Salinity
86-004161
Gazza minuta
Skeletal System
86-000176
Genypterus blacodes
Competition
86-000660
...CONTINUED...
Genypterus blacodes
Foods/Feeding
86-000661
Foods/Feeding/Selectivity
86-000660
Geotria australis
Biochemical Composition
86-002459
Blood Chemistry
86-001504
Dentition
86-000150
Endocrinology
86-000285
Iron
86-002459
Metamorphosis
86-000285
Mouth Parts
86-000150
Gerreidae
Competition
86-000677
Foods/Feeding
86-000677
Habitat Selection
86-000677
Gibberichthys latifrons
Distribution/Geographical
86-000766
Giganturidae
Early Development
86-004852
Taxonomy
86-004852
Gila atraria
Competition
86-002799
Gyrodactylus
86-001843
Parasites/Diseases
86-001843
Predator/Prey Relationships
86-002799
Reproduction
86-002404
Sexual Dimorphism
86-003805
Trematodes
86-001843
Vitellogenin
86-002404
Gila bicolor
Age/Growth
86-004242
Foods/Feeding
86-004242
Gill Rakers
86-003806
Meristic Studies
86-003806
Gila bicolor mohavensis
Abundance/Factors of
86-004748
Age/Growth
86-004655
Bioenergetics
86-001473
Fish Reserves
86-005349
Flow Regimes
86-004748
Life History/General
86-004249
Oxygen
86-004748

...CONTINUED...
Gila bicolor mohavensis
Salinity
86-001473
Status
86-004249
Temperature
86-001473
86-004748
Gila copei
Spawning
86-004432
Gila cypha
Life History/General
86-004274
Gila elegans
Culture/Propagation
86-001295
Induced Maturation
86-001295
Gila orcutti
Abundance/Factors of
86-004748
Flow Regimes
86-004748
Foods/Feeding
86-004582
Oxygen
86-004748
Temperature
86-004748
Gila robusta
Lordosis
86-005104
Parasites/Diseases
86-005104
Gillichthys mirabilis
Endocrinology
86-000280
86-000403
Growth Hormone
86-000403
Osmoregulation
86-000280
Salinity
86-000280
Ginglymostoma cirratum
Isozymes
86-002386
Girardinichthys viviparus
Embryology
86-002275
Girella elevata
Foods/Feeding
86-004487
Girella punctata
Iron
86-001508
Girella tricuspidata
Blood Chemistry
86-000313
86-000314
Cardio-Vascular System
86-001480
Catecholamines
86-000314
Stress
86-000313
86-000314
Temperature
86-000500
Vision
86-000500
Glyptocephalus cynoglossus
Foods/Feeding
86-004557
Gnathonemus petersi
Nervous System
86-001475
86-001476
Gnathonemus petersii
Electrophysiology
86-001457
Gobiesociformes
Early Development
86-004785
Taxonomy
86-004785
Gobiidae
Aquariums
86-000096
Cestodes
86-000520
Culture/Propagation
86-000096
Distribution/Geographical
86-004744
Fish Lists/Keys
86-004744
Foods/Feeding/Selectivity
86-004622
Life History/General
86-000520
Ligula intestinalis
86-000520
Microsporidia
86-005040
Parasites/Diseases
86-000520
86-005040
Protozoan Diseases
86-005040
Gobio gobio
Electrophoresis
86-002620
86-002621
Habitat Selection
86-004224
Lactate Dehydrogenase
86-002620
Length-Weight Relationships
86-002841
Malate Dehydrogenase
86-002621
Polymorphism
86-002620
86-002621
Gobiobatia paucirastella
New Species
86-004875
Gobioidei
Early Development
86-003788
Taxonomy
86-004840
Gobiomorphus
Trophic Relationships
86-004358
Gobiomorphus cotidianus
Cestodes
86-003049
Ligula intestinalis
86-003049
Parasites/Diseases
86-003049
Gobionellus
Taxonomy
86-000831
Gobioninae
Karyotypes
86-004123

Gobius niger
Life History/General
86-001600
Neuromasts
86-002254
Gobius pagenellus
Karyotypes
86-000448
Gonorynchiformes
Early Development
86-004886
Musculature
86-002898
Taxonomy
86-002898
86-004886
Gonostomatidae
Early Development
86-004782
Taxonomy
86-004782
Goodea atripinnis
Electrophoresis
86-002625
Variation Studies
86-002625
Gramma
Aquariums
86-000094
Culture/Propagation
86-000094
Gymnocanthus
Foods/Feeding
86-002805
Gymnocephalus baloni
Foods/Feeding
86-004569
Gymnocephalus cernua
Predator/Prey Relationships
86-000698
Gymnocephalus cernuus
Foods/Feeding
86-004569
Reproductive System
86-002318
Gymnocephalus schraetser
Foods/Feeding
86-004569
Gymnocypris przewalskii
Biomagnification
86-005191
Cadmium
86-005191
Copper
86-005191
Heavy Metals
86-005191
Lead
86-005191
Zinc
86-005191
Gymnoscopelus
Foods/Feeding
86-004615
Trophic Relationships
86-004615
Gymnoscopelus nicholsi
Mortality Rates
86-001615
Population Studies
86-001615
Gymnotus carapo
Electric Organs
86-001438
86-003904

...CONTINUED...
Gymnotus carapo
Electrophysiology
86-001438
Spawning
86-001631
Gyrinocheilus aymonieri
Mouth Parts
86-002222
Haemulidae
Artificial Reefs
86-001067
Management/Research--Marine
86-001067
Haemulon aurolineatum
Foods/Feeding
86-000693
Haemulon flavolineatum
Recruitment
86-000621
Spawning
86-000621
Haliotis discus
Biomagnification
86-005175
Heavy Metals
86-005175
Manganese
86-005175
Hampala macrolepidota
Foods/Feeding
86-004486
Spawning
86-004386
Haplochromis
Electrophoresis
86-002623
Mouth Parts
86-003798
Speciation
86-004913
86-004913
Taxonomy
86-004913
Variation Studies
86-002623
86-003798
Haplochromis burtoni
Vision
86-000471
Haptenchelys texis
Distribution/Vertical
86-001590
Fish Lists/Keys
86-001590
Identification
86-001590
Life History/General
86-001590
Harengula clupeola
Karyotypes
86-000440
Helcogramma medium
Blood Chemistry
86-000278
Respiration
86-000278
Helicolenus dactylopterus
Foods/Feeding
86-001676
Hemichromis bimaculatus
Scales
86-002279
86-003792
Hemigrammus bleheri
Aquariums
86-003595

...CONTINUED...
Hemigrammus bleheri
Culture/Propagation
86-003595
Hemigrammus ulreyi
Aquariums
86-002172
Culture/Propagation
86-002172
Hemilepidotus
Fecundity
86-004434
Maturation
86-004434
Sex Ratios
86-004434
Spawning
86-004434
Hemilepidotus gilberti
Foods/Feeding
86-000702
Hemilepidotus jordani
Foods/Feeding
86-000702
Hemilepidotus zapus
Early Development
86-000160
Hemitripterus americanus
Cardio-Vascular System
86-000245
86-001437
86-002370
Temperature
86-001437
Hemitripterus villosus
Eggs
86-002238
Hererotis noloticus
Distribution/Geographical
86-004708
Herotilapia multispinosa
Sex Ratios
86-000617
Spawning
86-000617
Heterandria formosa
Reproductive System
86-000147
Heterobranchus longifilis
Culture/Propagation
86-003449
Induced Maturation
86-003449
Heteroclinus
New Species
86-004837
Heteroclinus adelaidae
Taxonomy
86-004837
Heterodontus
Immunoglobulins
86-003953
Heterodontus japonicus
Caudal Neurosecretory System
86-000348
86-004077
Immune Response
86-004077
Immunoglobulins
86-004058
Heteropneustes fossilis
Acrylamide
86-005316
BHC
86-001930
Blood Chemistry
86-000255
...CONTINUED...
Heteropneustes fossilis
Culture/Propagation
86-002095
Digestion Rates
86-000386
Enzymes
86-002520
Foods/Feeding
86-000386
Induced Maturation
86-002095
Insecticides
86-001930
Liver
86-002520
Malathion
86-001930
Organochlorides
86-001930
Organophosphates
86-001930
Sewage Effluents
86-005195
Sodium Pentachlorophenate
86-005230
Spawning
86-002095
Surfactants
86-003165
Heterostichus rostratus
Coloration
86-003797
Hexagrammos lagocephalus
Abundance/Factors of
86-002771
Distribution/Geographical
86-002771
Distribution/Seasonal
86-002771
Distribution/Vertical
86-002771
Hexagrammos otakii
Radionuclides
86-003155
Hexagrammus decagrammus
Pituitary
86-000148
Hexanchus
Morphology
86-002282
Hexanchus griseus
Life History/General
86-001583
Hiodon alosoides
Reproduction
86-001487
Hippocampus ramulosus
Epidermis
86-003815
Hippoglossoides platessoides
Foods/Feeding
86-004557
Hippoglossus hippoglossus
Eggs
86-002368
Fish Stocks
86-002597
Lipid Composition
86-002368
Variation Studies
86-002597
Hippoglossus stenolepis
Catch per Unit Effort
86-001214
Life History/General
86-004234

...CONTINUED...
Hippoglossus stenolepis
Management/Reseach--Marine
86-001066
Management/Research--Marine
86-001214
86-004234
Population Studies
86-002734
Predator/Prey Relationships
86-002775
Hirundicythys affinis
Management/Research--Marine
86-005653
Histrio histrio
Aquariums
86-000090
Culture/Propagation
86-000090
Hoplias microlepis
Hypoxia
86-003869
Respiration
86-003869
Hucho hucho
Age/Growth
86-002840
Culture/Propagation
86-003393
Foods/Feeding
86-004617
Incubation
86-003393
Magnetic Fields
86-003393
Huso huso
Abundance/Factors of
86-001757
Culture/Propagation
86-002094
Embryology
86-002244
Flow Regimes
86-001757
Pond Culture
86-002094
Spawning
86-001757
Temperature
86-002244
Hypentelium etowanum
Identification/Larvae
86-004912
Hypentelium nigricans
Identification/Larvae
86-004912
Hyperoplus lanceolatus
Aeromonas salmonicida
86-004957
Bacterial Diseases
86-004957
Parasites/Diseases
86-004957
Hyphessobrycon elachys
New Species
86-000840
Hypleurochilus geminatus
Mouth Parts
86-001377
Hypoatherina tropicalis
Foods/Feeding/Selectivity
86-004587
Hypomesus nipponensis
Population Studies
86-004367
Predator/Prey Relationships
86-004367
Hypomesus pretiosus
Meristic Studies
86-003737
Hypophthalmichthys molitrix
Age/Growth
86-000728
Aquatic Plant Control
86-000001
86-000004
86-003419
Bacterial Diseases
86-005006
Chromosome Studies
86-004092
Culture/Propagation
86-000029
86-002069
86-002089
86-002096
Digestive System
86-000202
86-000203
Digestive System/Bacterial Flora
86-000202
Electrophoresis
86-000445
Endocrinology
86-001409
Enzymes
86-000203
Fertilization/Soil and Water
86-000029
Fish as Food
86-002013
Food Digestibility
86-000202
Foods/Feeding
86-000001
Hybridization
86-000004
Induced Maturation
86-002069
86-002096
Karyotypes
86-004092
Parasites/Diseases
86-005006
Polyculture
86-000029
86-002089
Pond Culture
86-002089
Reproduction
86-001409
Reproductive System
86-001429
Scales
86-000728
Staphylococcus aureus
86-005006
Triploid Fish
86-000004
Trophic Relationships
86-004565
Hypopomus artedi
Electric Organs
86-001438
86-003904
Electrophysiology
86-001438
Hypopomus beebei
Electric Organs
86-003904
Hypopomus occidentalis
Electric Organs
86-001438

...CONTINUED...
Hypopomus occidentalis
Electric Organs
86-003904
Electrophysiology
86-001438
Hypostomus dlouhyi
New Species
86-001787
Hypseleotris galii
Early Development
86-000154
Hypsoblennius hentzi
Mouth Parts
86-001377
Hypsoblennius ionthas
Mouth Parts
86-001377
Hypsoblennius jenkinsi
Abundance/Factors of
86-000803
Age/Growth
86-000803
Bioenergetics
86-000803
86-002495
Icelinus
Fish Lists/Keys
86-004880
Icelinus fimbriatus
Distribution/Geographical
86-004880
Taxonomy
86-004880
Icelinus oculatus
Distribution/Geographical
86-004880
Taxonomy
86-004880
Ichthyomyson unicuspis
Electroreception
86-002503
Ichthyomyzon greeleyi
Age/Growth
86-000715
Ichthyomyzon unicuspis
Lamprey Parasitism
86-001853
Locomotion
86-000263
Nervous System
86-000263
86-000365
86-000408
Parasites/Diseases
86-001853
Respiration
86-000365
Serotonin
86-000263
Ichthyoscopus lebeck
Acanthobothrium
86-005087
Cestodes
86-005087
Parasites/Diseases
86-005087
Icosteoidei
Early Development
86-004867
Taxonomy
86-004867
Ictaluridae
Allocreadium ictaluri
86-005086
Parasites/Diseases
86-005086

...CONTINUED...
Ictaluridae
Trematodes
86-005086
Ictalurus
Carcinogens
86-005234
Cyanide
86-001019
Parasites/Diseases
86-005234
Ictalurus catus
Age/Growth
86-002820
Fin Clipping
86-001162
Life History/General
86-002820
Marking/Tagging
86-001162
Ictalurus furcatus
Catfish Traps
86-003264
Distribution/Geographical
86-004728
Nets/Netting
86-003264
Ictalurus lupus
Electrophoresis
86-004117
Meristic Studies
86-004117
Ictalurus melas
Biological Indicators
86-005168
Carcinogens
86-005168
Endocrinology
86-002486
Ictalurus nebulosus
Age/Growth
86-000729
86-001697
Brooding Behavior
86-004389
Carcinogens
86-005299
Chemoreception
86-001578
Endocrinology
86-000364
Individual Recognition
86-000475
Mucus
86-005331
pH
86-005331
Pheromones
86-002321
Reproduction
86-000364
Spawning
86-000598
86-002744
Steroids
86-000364
Temperature
86-000729
86-001697
Ictalurus punctatus
Abundance/Factors of
86-000798
Aeromonas hydrophila
86-001808
Age/Growth
86-002815

...CONTINUED...
Ictalurus punctatus
Age/Growth
86-004112
Algicides
86-005324
Amino Acids
86-000083
Anemia
86-003025
86-003033
Anoxia
86-000238
Bacterial Diseases
86-000864
86-000873
86-000878
86-001807
86-001808
86-004972
Biofiltration
86-003420
Biomagnification
86-005212
Blood Chemistry
86-000213
86-000231
86-000328
86-000345
86-003969
Body Temperature
86-003962
Cage Culture
86-002027
86-003416
Calcium
86-002158
Catfish Traps
86-003264
CCVD
86-000896
86-000901
86-000903
86-000904
Cortisol
86-000231
Culture/Propagation
86-000024
86-000025
86-000031
86-000075
86-000083
86-001303
86-001526
86-002026
86-002027
86-002070
86-002074
86-002077
86-002093
86-002142
86-002162
86-002169
86-003414
86-003416
86-003420
86-003431
86-003450
86-003454
86-003469
86-003548
86-003563
86-003564
Diets
86-000083
86-002162

...CONTINUED...
Ictalurus punctatus
Diets
86-003548
86-003563
Distribution/Geographical
86-002843
Distribution/Seasonal
86-000636
Economics
86-002077
86-003431
Edwardsiella ictaluri
86-000864
86-001807
86-004972
Electrophoresis
86-004117
Enteric Septicemia of Catfish
86-001807
86-004972
Enzymes
86-002815
86-003933
Euteric Septicemia of Catfish
86-000864
Excretory System
86-003846
Feeding Experiments
86-000075
86-000083
86-002074
86-002142
86-002158
86-003548
86-003563
86-003564
Feeds
86-000075
86-000083
Fin Clipping
86-001162
Fluridone
86-001902
Gas Supersaturation
86-000910
Genetic Strains
86-000031
Gentamicin
86-000878
Habitat Selection
86-000798
Heated Water
86-002026
86-002027
Heavy Metals
86-005212
Henneguya exilis
86-005028
Hypoxia
86-000215
Ichthyophthiriasis
86-002978
Ichthyophthirius multifiliis
86-002978
Immunization
86-002978
Immunoglobulins
86-004002
Iron
86-002142
Lipid Metabolism
86-002307
86-003969
Lymphosarcomas
86-000907

...CONTINUED...
Ictalurus punctatus
Marketing
86-003357
86-003358
Marking/Tagging
86-000636
86-001162
86-005462
Meristic Studies
86-004117
Metabolic Rates
86-000213
Modeling
86-003454
Movements
86-000636
86-002769
Nets/Netting
86-003264
Nitrite
86-005322
Nutrition
86-002142
86-002158
86-002162
86-003548
86-003563
Nutritional Diseases
86-000922
86-003025
Parasites/Diseases
86-000864
86-000873
86-000878
86-000896
86-000901
86-000903
86-000904
86-000907
86-000910
86-000922
86-001791
86-001807
86-001808
86-002978
86-003025
86-003033
86-004972
86-005028
Phosphate Esters
86-001884
Polyculture
86-002026
86-002093
Polyploidy
86-001526
Pond Culture
86-000025
86-002074
86-002093
86-003420
Power Plant Effluents
86-002026
86-002027
Protein Metabolism
86-000291
Protein Synthesis
86-002815
Protozoan Diseases
86-002978
86-005028
Recirculating Systems
86-003454
Saponified Castor Oil
86-005324

...CONTINUED...
Ictalurus punctatus
Selective Breeding
86-000024
86-004112
Sex Reversal
86-000230
Skeletal System
86-000129
Solricin
86-005324
Specific Dynamic Action
86-000213
Stress
86-000231
86-002169
Taste and Odor Problems
86-003414
86-003450
Telemetry
86-000636
86-005462
Temperature
86-000291
86-002307
86-003564
Thermal Shock
86-000291
Trace Metals
86-005212
Transportation
86-002169
Triploid Fish
86-001526
Vibrio
86-000873
Vibrio anguillarum
86-000873
Viral Diseases
86-000896
86-000901
86-000903
Vision
86-001387
86-002231
86-002242
Water Quality
86-002074
Ictiobus
Culture/Propagation
86-003452
Ilisha melastoma
Biochemical Composition
86-000379
Ilyophis arx
Distribution/Vertical
86-001590
Fish Lists/Keys
86-001590
Identification
86-001590
Life History/General
86-001590
Ilyophis brunneus
Distribution/Vertical
86-001590
Fish Lists/Keys
86-001590
Identification
86-001590
Life History/General
86-001590
Isotiophorus platerus
Biomagnification
86-003071
Heavy Metals
86-003071

...CONTINUED...
Isotiophorus platerus
Mercury
86-003071
Selenium
86-003071
Istiophoridae
Body Temperature
86-000204
Thermal Regulation
86-000204
Isurus oxyrinchus
Body Temperature
86-003849
Temperature
86-003849
Isurus paucus
Body Temperature
86-003849
Temperature
86-003849
Jordanella floridae
Chlorinated Hydrocarbons
86-001905
Heavy Metals
86-005274
Insecticides
86-001905
86-005271
86-005272
Methoxychlor
86-001905
86-005271
86-005272
Trace Metals
86-005274
Kareius bicoloratus
Age/Growth
86-002829
Chloride Cells
86-000152
Embryology
86-000152
Salinity
86-000152
Katsuwonus pelamis
Chromosome Studies
86-002616
Exercise
86-001515
Foods/Feeding
86-000652
86-001660
86-002800
Gills
86-001390
Locomotion
86-003819
Musculature
86-003819
Parasites/Diseases
86-000853
Respiration
86-001390
Kyphosus cinerascens
Nematodes
86-000921
Parasites/Diseases
86-000921
Psuedascarophis kyphosi
86-000921
Labeo bata
Blood Chemistry
86-000255
Labeo capensis
Blood Chemistry
86-001512
...CONTINUED...
Labeo capensis
Early Development
86-001354
Lernaea barnimiani
86-003048
Parasites/Diseases
86-003048
Parasitic Copepods
86-003048
Respiration
86-001512
Labeo eursa
Blood Chemistry
86-000255
Labeo frenatus
Aquariums
86-003607
Culture/Propagation
86-003607
Labeo rohita
Acanthocephala
86-005114
Age/Growth
86-000721
Bacterial Diseases
86-001804
Brood Stock
86-000032
Columnaris Disease
86-001804
Culture/Propagation
86-000032
86-003462
Induced Maturation
86-003462
Insecticides
86-005279
Pallisentis kalriai
86-005114
Paraechinorhynchus kalriai
86-005081
Parasites/Diseases
86-001804
86-005081
86-005114
Phosphamidon
86-005279
Selective Breeding
86-000032
Stress
86-001804
Trematodes
86-005081
Labeo umbratus
Blood Chemistry
86-001927
Lernaea barnimiani
86-003048
Parasites/Diseases
86-003048
Parasitic Copepods
86-003048
Toxicology
86-001927
Labridae
Mouth Parts
86-001376
Labroidei
Early Development
86-004887
Taxonomy
86-004887
Lagodon rhomboides
Cage Culture
86-002027

...CONTINUED...
Lagodon rhomboides
Cage Culture
86-002110
Culture/Propagation
86-002027
86-002110
Foods/Feeding/Selectivity
86-002788
Heated Water
86-002027
86-002110
Karyotypes
86-002599
Power Plant Effluents
86-002027
86-002110
Predator/Prey Relationships
86-002788
Lamna ditropis
Body Temperature
86-003849
Temperature
86-003849
Lamna nasus
Body Temperature
86-003849
Temperature
86-003849
Lampanyctus ritteri
Lampanyctophilus wisneri
86-005133
Parasites/Diseases
86-005133
Trematodes
86-005133
Lampetra appendix
Distribution/Geographical
86-001735
Lampetra fluviatilis
Blood Chemistry
86-002469
86-003984
Musculature
86-000181
pH Regulation
86-002469
Respiration
86-002505
Lampetra japonica
Caudal Neurosecretory System
86-000348
Digestive System
86-001367
Hormones
86-003890
Maturation
86-002380
86-003890
Pineal Body
86-004053
Reproduction
86-002380
Lampetra planeri
Biochemical Composition
86-002458
Pineal Body
86-000330
Lampetra reissneri
Maturation
86-002380
Reproduction
86-002380
Lampetra tridentata
Bacterial Diseases
86-004950
...CONTINUED...
Lampetra tridentata
Bacterial Kidney Disease
86-004950
Body Temperature
86-001463
Parasites/Diseases
86-004950
Renibacterium salmoninarum
86-004950
Temperature
86-000308
86-001463
Lamprichthys tanganicanus
Aquariums
86-002177
Culture/Propagation
86-002177
Lampriformes
Early Development
86-004878
Taxonomy
86-004878
Lamprologus
Age/Growth
86-004278
Brooding Behavior
86-004278
Mortality Rates
86-004278
Lamprologus brevis
Aquariums
86-000107
Culture/Propagation
86-000107
Lamprologus pleuromaculatus
Aquariums
86-003600
Culture/Propagation
86-003600
Lasiancistrus scolymus
New Species
86-001777
Lateolabrax japonicus
Movements
86-001656
Lateolatrax japonicus
Cage Culture
86-003517
Culture/Propagation
86-003517
Lates calcarifer
Culture/Propagation
86-000037
86-002126
Foods/Feeding
86-004599
Parasites/Diseases
86-003001
Pond Culture
86-002126
Swimbladder Stress Syndrome
86-003001
Latimeria chalumnae
Biochemical Composition
86-002535
Life History/General
86-001599
Nervous System
86-002535
Latridopsis forsteri
Life History/General
86-000533
86-000534
Management/Research--Marine
86-000534

Leiognathidae
Taxonomy
86-000824
Leiognathus splendus
Skeletal System
86-000176
Leiopotherapon unicolor
Parasites/Diseases
86-001830
Retrobulla angelae
86-001830
Trematodes
86-001830
Leiostomus xanthurus
Age/Growth
86-000741
86-001710
Cage Culture
86-002110
Culture/Propagation
86-002110
Foods/Feeding
86-001670
Heated Water
86-002110
Movements
86-001710
86-004476
Otoliths
86-000741
Power Plant Effluents
86-002110
Lepadogaster candollei
Epidermis
86-004084
Integument
86-004084
Lepidocephalus guntea
Digestive System
86-003811
Lepidorhynchus denticulatus
Competition
86-000660
Foods/Feeding
86-000661
Foods/Feeding/Selectivity
86-000660
Lepidosiren paradoxa
Mouth Parts
86-001352
Lepisosteus oculatus
Air Breathing
86-000388
Lepisosteus osseus
Early Development
86-003813
Lepisosteus platyrhincus
pH
86-001003
Lepomis
Aromatic Hydrocarbons
86-005297
Lepomis auritus
Foods/Feeding
86-002807
Lepomis cyanellus
Age/Growth
86-000026
Anadonta grandis grandis
86-003017
Asbestos
86-001877
Cestodes
86-003031
Culture/Propagation
86-000026

...CONTINUED...
Lepomis cyanellus
Enzymes
86-003933
Growth
86-000026
Hybridization
86-000026
86-005467
Management/Research--Ponds
86-005467
Nitrite
86-005322
Parasites/Diseases
86-003017
86-003031
Parasitic Molluscs
86-003017
Pond Culture
86-000026
Protocephalus
86-003031
Stocking/Introductions
86-005467
Lepomis gibbosus
Competition
86-004514
Predator/Prey Relationships
86-004514
Lepomis humilis
Oil Refinery Effluents
86-003138
Lepomis macrochirus
Abundance/Factors of
86-001751
Acrylamide
86-003117
Age/Growth
86-000026
86-001694
86-004651
Ammonia
86-003128
Anthracene
86-005296
Aromatic Hydrocarbons
86-005296
86-005297
Bioassay Techniques
86-005250
Bioenergetics
86-001694
Biological Monitoring
86-005250
Biomagnification
86-003080
Blood Chemistry
86-001516
Body Temperature
86-003962
Brooding Behavior
86-000600
Cadmium
86-001874
86-001928
Calcium
86-001516
Condition Factors
86-001694
Copper
86-001874
86-005267
Culture/Propagation
86-000026
86-001336
Distribution/Seasonal
86-000525

...CONTINUED...
Lepomis macrochirus
DMF
86-005303
Electrophoresis
86-004121
Enzymes
86-001461
Escape Behavior
86-004612
Growth
86-000026
Heavy Metals
86-000982
86-001874
86-001895
86-001928
86-005267
Hybridization
86-000026
86-005467
Insecticides
86-003080
Irrigation Projects
86-001596
Jet Fuel
86-005250
Learning
86-002670
Life History/General
86-001596
Management/Research--Ponds
86-002719
86-005455
86-005467
Mercury
86-001895
Methanol
86-005303
Methyl Mercuric Chloride
86-001906
Nickel
86-001874
Organochlorines
86-003080
pH
86-001516
Phosphate Esters
86-001884
Piscicides
86-001336
86-003168
Pond Culture
86-000026
Population Studies
86-001751
86-002719
Predator/Prey Relationships
86-004564
86-004612
Rotenone
86-003168
Selenium
86-003102
86-003103
Social Behavior
86-002640
Solvents
86-005303
Spawning
86-000525
86-000600
Stocking/Introductions
86-005467
Stress
86-001446

...CONTINUED...
Lepomis macrochirus
TFM
86-001336
Thermal Shock
86-001461
Trace Metals
86-003102
Trophic Relationships
86-002719
Turbidity
86-000525
Variation Studies
86-004121
Zinc
86-001874
Lepomis megalotis
Acoustico-Lateralis System
86-000267
Heavy Metals
86-001016
Mercury
86-001016
Lepomis megalotis peltastes
Spawning
86-002749
Leptobrotula
New Genus
86-001776
Leptobrotula breviventralis
New Species
86-001776
Lepturacanthus savala
Acanthobothrium
86-005087
Cestodes
86-005087
Parasites/Diseases
86-005087
Lethenteron japonicum
Dwarfism
86-003729
Lethenteron kessleri
Taxonomy
86-004849
Leucaspius delineatus
Electrophoresis
86-002621
Malate Dehydrogenase
86-002621
Polymorphism
86-002621
Leuciscus cephalus
Acanthocephala
86-005084
Length-Weight Relationships
86-002841
Parasites/Diseases
86-005084
Pomphorhynchus laevis
86-005084
Leuciscus cephalus cabeda
Eimeria
86-005024
Parasites/Diseases
86-005024
Protozoan Diseases
86-005024
Leuciscus idus
Age/Growth
86-004654
Leuciscus idus melanotus
Phenols
86-001924
Leuciscus leuciscus
Foods/Feeding/Selectivity
86-004516

Lichia amia
Foods/Feeding
86-002800
Limanda
Injuries
86-005112
Limanda aspera
Abundance/Factors of
86-004232
Age/Growth
86-002827
Life History/General
86-004232
Management/Research--Marine
86-004232
Population Studies
86-004232
Limanda ferruginea
Age/Growth
86-002838
Length-Weight Relationships
86-002838
Limanda herzensteini
Fecundity
86-001637
Limanda limanda
Foods/Feeding
86-004618
Heavy Metals
86-001028
86-003004
Hyperplasia
86-005082
Iron
86-003004
Parasites/Diseases
86-003004
86-005082
Limanda schrenki
DNA
86-003707
Early Development
86-003707
RNA
86-003707
Limanda yokohamae
Age/Growth
86-002830
Culture/Propagation
86-003557
Feeding Experiments
86-003557
Lionurus carapinus
Distribution/Geographical
86-004706
Liopropoma
Aquariums
86-000094
Culture/Propagation
86-000094
Liopsetta obscura
Auditory Senses
86-000506
Liparis fabricii
Distribution/Geographical
86-000750
Spawning
86-000750
Liparis gibbus
Distribution/Geographical
86-000750
Spawning
86-000750
Liparis tanakai
Foods/Feeding
86-004523
Lipogramma
Aquariums
86-000094
Culture/Propagation
86-000094
Lithognathus mormyrus
Culture/Propagation
86-003493
86-003500
86-003527
Feeders
86-003527
Foods/Feeding/Selectivity
86-004530
Fry Production
86-003500
Harvest
86-003493
Management/Research--Marine
86-003493
Trophic Relationships
86-004530
Liza
Ichthyophonus
86-005041
Parasites/Diseases
86-005041
Protozoan Diseases
86-005041
Liza abu
pH
86-002289
Salinity
86-002289
Temperature
86-002289
Liza aurata
Endocrinology
86-003845
Reproduction
86-003845
Liza macrolepis
Culture/Propagation
86-002083
86-002105
Egg Collection
86-002105
Fingerling Production
86-002105
Liza richardsoni
Foods/Feeding
86-001684
Liza saliens
Early Development
86-002261
Reproductive System
86-002261
Temperature
86-003945
Lophalatilus chamaeleonticeps
Spawning
86-000604
Lophiidae
Taxonomy
86-000816
Lophiiformes
Early Development
86-004881
Taxonomy
86-004881
Lophius budegassa
Musculature
86-002335
Protein Synthesis
86-002335

Lophius litulon
Pigments
86-003765
Lophius piscatorius
Foods/Feeding
86-001661
Musculature
86-002335
Protein Synthesis
86-002335
Lophius upsicephalus
Foods/Feeding
86-001676
Lopholatilus chamaeleonticeps
Activity Patterns
86-004188
Age/Growth
86-000575
Age/Length Composition
86-000575
Burrowing Behavior
86-004188
Distribution/Factors of
86-000485
Fecundity
86-002363
Habitat Selection
86-000485
86-004188
Harvest
86-003334
Hermaphroditism
86-002363
Life History/General
86-003334
Management/Research--Marine
86-000575
86-003334
Maturation
86-002363
Mortality Rates
86-000575
Population Studies
86-000575
86-004379
Reproduction
86-000604
Substrate Composition
86-000485
Lota lota
Cestodes
86-005105
Culture/Propagation
86-002082
Digestive System
86-001373
Egg Collection
86-002082
Fertility
86-002082
Fertilization
86-002082
Foods/Feeding/Selectivity
86-004516
Gyrodactylus katharineri
86-005089
Gyrodactylus lotae
86-005089
Gyrodactylus lucii
86-005089
Karyotypes
86-004141
Parasites/Diseases
86-005089
86-005105

...CONTINUED...

Lota lota
Trematodes
86-005089
Triaenophorus nodulosus
86-005105
Lucania parva
Taxonomy
86-002908
Luciocyprinus
Taxonomy
86-002897
Lucioperca lucioperca
Population Studies
86-004331
Lumpenus maculatus
Lipid Metabolism
86-003877
Lutjanidae
Artificial Reefs
86-001067
Management/Research--Marine
86-001067
Lutjanus analis
Age/Growth
86-004644
Length-Weight Relationships
86-004644
Mortality Rates
86-004644
Lutjanus argentimaculatus
Age/Growth
86-002810
Lutjanus argentiventris
Taxonomy
86-000830
Lutjanus bohar
Life History/General
86-002704
Lutjanus buccanella
Age/Growth
86-004634
Lutjanus coccineus
Age/Growth
86-002689
86-002835
Culture/Propagation
86-002689
Management/Research--Marine
86-002728
Maturation
86-002689
Population Studies
86-002728
Spawning
86-002689
Lutjanus synagris
Mortality Rates
86-004313
Population Studies
86-004313
Survival
86-004313
Lycodes
Ichthyofilaria canadensis
86-001822
Nematodes
86-001822
Macquaria ambigua
Algal Infections
86-003026
Parasites/Diseases
86-003026
Macquaria novemaculeata
Fecundity
86-004400

...CONTINUED...
Macquaria novemaculeata
Maturation
86-004400
Reproduction
86-004400
Spawning
86-004400
Macrones halepensis colvillii
Taxonomy
86-004787
Macropodus opercularis
Behavior
86-000447
Defensive Behavior
86-002635
Electrophoresis
86-002606
Genetics
86-000447
Learning
86-004102
Predator/Prey Relationships
86-002635
Prostaglandins
86-004066
Macrorhamphosus gracilis
Light
86-004163
Macrostomias
Taxonomy
86-002894
Macrouridae
Distribution/Geographical
86-002861
Distribution/Seasonal
86-002861
Myxosporidia
86-000885
Otoliths
86-000511
Parasites/Diseases
86-000885
Protozoan Diseases
86-000885
Macrourus berglax
Life History/General
86-002698
Population Studies
86-002698
Macrozoarces americanus
Autoregulation
86-000217
Foods/Feeding
86-004557
Spawning
86-000615
Macruronus novaezelandiae
Competition
86-000660
Foods/Feeding
86-000661
Foods/Feeding/Selectivity
86-000660
Macrurus rupestris
Distribution/Vertical
86-004470
Macurus coryphaenoides
Nets/Netting
86-005502
Trawls
86-005502
Makaira mazara
Biomagnification
86-003071
Heavy Metals
86-003071

...CONTINUED...
Makaira mazara
Mercury
86-003071
Selenium
86-003071
Makaira nigricans
ATP
86-001397
Bioenergetics
86-004048
Enzymes
86-004048
Locomotion
86-002349
Musculature
86-001397
Respiration
86-002349
Malacocephalus boretzi
New Species
86-002910
Mallotus villosus
Age/Growth
86-000723
Antifreeze Production
86-002344
Competition
86-004498
Eggs
86-003697
Embryology
86-003712
Foods/Feeding
86-004498
Life History/General
86-000550
Mortality Rates
86-000571
Movements
86-000571
Otoliths
86-000723
Population Studies
86-000550
86-000571
Salinity
86-002344
Temperature
86-002344
Mallotus villosus villosus
Predator/Prey Relationships
86-004578
Manacopus falcifer
Fins
86-002268
Marcusenius senegelensis
Foods/Feeding
86-002781
Marilyna
New Genus
86-004832
86-004833
Mastacembelus
Taxonomy
86-004894
Mastacemblus paucalus
Blood Chemistry
86-000255
Megalore atlanticus
Karyotypes
86-000440
Melanogrammus aeglefinus
Costiasis
86-002984
Egg Identification
86-001276

...CONTINUED...

Melanogrammus aeglefinus
Ichthyobodo
86-002984
Management/Research--Marine
86-005541
86-005667
Parasites/Diseases
86-002984
Protozoan Diseases
86-002984
Recruitment
86-005667
Risk Analysis
86-005541
Melanotaenia herbertaxelrodi
Aquariums
86-003599
Culture/Propagation
86-003599
Melanotaenia nigrans
Early Development
86-004394
Embryology
86-003695
Spawning
86-004394
Melanotaenia splendida inornata
Early Development
86-003695
86-004394
Spawning
86-003695
86-004394
Melanotaenica trifasciata
Aquariums
86-001332
Culture/Propagation
86-001332
Meluccius productus
Management/Research--Marine
86-002001
Menidia beryllina
Carcinogens
86-005265
Competition
86-000655
Foods/Feeding
86-000655
Parasites/Diseases
86-005265
Salinity
86-001644
Spawning
86-001644
Tumors
86-005265
Menidia menidia
Chlorine
86-005255
Competition
86-000655
Fecundity
86-000227
Foods/Feeding
86-000655
Pollution Avoidance
86-005255
Sex Determination
86-003857
Temperature
86-003857
Menidia peninsulae
Salinity
86-001644
Spawning
86-001644
Menticirrhus saxatilis
Life History/General
86-002693
Management/Research--Marine
86-002693
Merlangius merlangus
Foods/Feeding
86-004575
Trophic Relationships
86-004575
Merluccius
Life History/General
86-004322
Management/Research--Marine
86-004322
Population Studies
86-004322
Merluccius australis
Aporocotyle australis
86-003015
Parasites/Diseases
86-003015
Trematodes
86-003015
Merluccius bilinearis
Age/Growth
86-002833
86-004648
Distribution/Factors of
86-000633
Temperature
86-000633
Merluccius hubbsi
Movements
86-004448
Merluccius productus
Economic Values
86-002000
Fecundity
86-002756
Life History/General
86-001597
86-002006
Management/Research--Marine
86-002000
86-002003
86-002006
86-002007
86-002010
Nets/Netting
86-001974
Parasites/Diseases
86-001794
Population Studies
86-001602
86-001605
86-001618
Recruitment
86-001602
Trophic Relationships
86-001674
Mesogobius batrachocephalus
Culture/Propagation
86-001300
Early Development
86-001300
Embryology
86-001300
Microgadus tomcod
Carcinogens
86-005093
Hepatic Carcinomas
86-005093
Parasites/Diseases
86-005093

Micromesistius australis
Competition
86-000660
Foods/Feeding
86-000661
Foods/Feeding/Selectivity
86-000660
Micromesistius poutassou
Blood Chemistry
86-004067
Distribution/Geographical
86-004663
Population Studies
86-004663
Micropogon undulatus
Cage Culture
86-002110
86-002111
Culture/Propagation
86-002110
86-002111
86-002115
Heated Water
86-002110
Polyculture
86-002115
Power Plant Effluents
86-002110
Temperature
86-002111
Micropogonias undulatus
Age/Growth
86-000714
Cage Culture
86-002121
Culture/Propagation
86-002121
Foods/Feeding
86-001670
Heavy Metals
86-003113
Induced Maturation
86-000412
Lead
86-003113
Micropterus coosae
Age/Growth
86-002832
Meristic Studies
86-002832
Micropterus dolomieui
Abundance/Factors of
86-004752
Age/Growth
86-004639
Aluminum
86-000943
Biomagnification
86-000943
Foods/Feeding
86-000658
Habitat Selection
86-002633
86-002663
86-002669
86-004639
Hatching Success
86-001748
Heavy Metals
86-000943
86-003095
Lead
86-003095
Management/Research--Reservoirs
86-003234

...CONTINUED...

Micropterus dolomieui
Management/Research--Rivers and Streams
86-001156
pH
86-003862
Regulations
86-001156
Size Limits
86-001156
Starvation
86-003862
Stocking/Introductions
86-003234
Temperature
86-001748
Wind
86-001748
86-004752
Micropterus notius
Foods/Feeding
86-001686
Habitat Selection
86-001686
Micropterus punctulatus
Habitat Evaluation
86-003297
Habitat Rating Systems
86-003297
Management/Research--Rivers and Streams
86-003297
Micropterus salmoides
Age/Growth
86-002813
86-002834
Competition
86-000044
86-000503
86-004192
86-004779
Creel Census
86-001143
Culture/Propagation
86-000044
Electrophoresis
86-001542
86-005456
Escape Behavior
86-004612
Fishing Tournaments
86-001055
86-001143
86-005350
Foods/Feeding
86-000688
86-001686
86-002675
86-002777
86-004475
86-004559
86-004597
Foods/Feeding/Selectivity
86-000678
Fright Behavior
86-000474
Genetic Markers
86-005456
86-005465
Habitat Selection
86-000502
86-000503
86-001686
86-002633
86-002675

...CONTINUED...
Micropterus salmoides
Home Range
86-002652
Hooking Mortality
86-001055
Hybridization
86-002813
Lernaea cruciata
86-005128
Magnetic Tags
86-001159
Management/Research--General
86-001055
Management/Research--Lakes
86-001227
Management/Research--Ponds
86-002719
86-005455
Marking/Tagging
86-000946
86-001159
86-005456
86-005465
Metabolic Rates
86-000421
Mortality Rates
86-004374
Movements
86-000502
86-004475
Nitrite
86-005322
Orientation/Homing
86-002652
Parasites/Diseases
86-005128
Parasitic Copepods
86-005128
Pollution Avoidance
86-000946
Polyculture
86-000044
Pond Culture
86-000044
Population Studies
86-002719
86-004374
Predator/Prey Relationships
86-000474
86-004597
86-004612
Red Sore Disease
86-005128
Regulations
86-001227
86-003306
Size Limits
86-001227
86-003306
Spawning Migration
86-002652
Stress
86-000421
Telemetry
86-000946
Temperature
86-000421
Trophic Relationships
86-002719
Variation Studies
86-004111
Vulnerability to Anglers
86-003306
Wire Tags
86-001159
Micropterus salmoides floridanus
Early Development
86-001384
Hybridization
86-001384
Metabolic Rates
86-003868
Stress
86-003868
Micropterus salmoides salmoides
Early Development
86-001384
Hybridization
86-001384
Micropterus treculi
Ammonia
86-003160
Culture/Propagation
86-002073
86-003421
Nitrate
86-003160
Nitrite
86-003160
Pond Culture
86-003421
Mirapinnatoidei
Early Development
86-004795
Taxonomy
86-004795
Misgurnus anguillicaudatus
Culture/Propagation
86-000047
Gynogenesis
86-000464
Polyploidy
86-000047
Sterilization
86-000047
Misgurnus fossilis
Embryology
86-000133
Fungicides
86-005298
Tetrabutyl Stannate
86-005298
Tetraethyl Stannate
86-005298
Momonatira
New Genus
86-001778
Momonatira globosus
New Species
86-001778
Monacanthidae
Distribution/Geographical
86-000777
Fish Lists/Keys
86-000777
Monocentridae
Distribution/Geographical
86-002900
Fish Lists/Keys
86-002900
Taxonomy
86-002900
Monopterus albus
Endocrinology
86-002479
Hormones
86-002479
Mordacia mordax
Biochemical Composition
86-002458

...CONTINUED...
Mordacia mordax
Biochemical Composition
86-002459
Iron
86-002459
Morone
Age/Growth
86-000743
Hybridization
86-000743
Onchocleidus interruptus
86-005079
Onchocleidus mimus
86-005079
Parasites/Diseases
86-005079
Taxonomy
86-004906
Trematodes
86-005079
Morone americana
Abnormalities
86-003784
Chlorine
86-005255
Competition
86-002797
Fins
86-003784
Foods/Feeding
86-001663
86-002797
Hybridization
86-001549
Pollution Avoidance
86-005255
Population Studies
86-004371
Morone chrysops
Age/Growth
86-000722
86-002836
Condition Factors
86-000722
Culture/Propagation
86-000041
86-000041
86-002099
86-003439
Foods/Feeding
86-001663
Fry Production
86-002099
Hybridization
86-000722
86-001052
86-001177
86-001549
86-002099
86-003239
86-003308
86-004255
Induced Maturation
86-002099
Life History/General
86-004255
Management/Research--General
86-001052
Management/Research--Ponds
86-003308
Management/Research--Reservoirs
86-000722
86-003239
Pond Culture
86-000041

...CONTINUED...
Morone chrysops
Predator Introductions
86-003308
Stocking/Introductions
86-000722
86-001177
86-003239
86-004255
Survival
86-000722
Morone mississippiensis
Population Studies
86-004311
Morone saxatilis
Abnormalities
86-002241
Abundance/Factors of
86-000950
Age/Growth
86-000691
86-000722
86-000726
86-000740
86-000741
86-001520
Alicyclic Hexanes
86-000985
Aluminum
86-000950
Bacterial Diseases
86-000879
86-002947
86-002952
Blood Chemistry
86-004071
Brackishwater Culture
86-002067
86-002088
Cestodes
86-003040
Condition Factors
86-000722
Creel Census
86-001962
Culture/Propagation
86-000041
86-001294
86-002065
86-002067
86-002088
86-002099
86-002140
86-003439
Digestive System
86-003831
Distribution/Vertical
86-000643
DNA
86-001520
Edwardsiella tarda
86-002947
Enzymes
86-002472
86-003831
Feeding Experiments
86-002140
Fertilization/Soil and Water
86-001294
Fexibacter columnaris
86-002952
Fish Stocks
86-004325
Foods/Feeding
86-000691
86-001294

...CONTINUED...
Morone saxatilis
Foods/Feeding
86-002808
Fry Production
86-002099
Harvest
86-001962
Healing
86-003040
Heavy Metals
86-000950
Hybridization
86-000041
86-000722
86-001052
86-001177
86-002099
86-003239
86-003308
86-004255
Hydrocarbons
86-000985
Induced Maturation
86-002099
IPN
86-000902
Lacistorhynchus tenuis
86-003040
Life History/General
86-000524
86-002065
86-004255
Management/Research--General
86-001052
86-002065
Management/Research--Ponds
86-003308
Management/Research--Reservoirs
86-000722
86-003239
Marking/Tagging
86-001163
Mortality Factors
86-000851
Musculature
86-000332
Mutagens
86-001525
Nerocila acuminata
86-003051
Oil
86-000985
Otoliths
86-000740
86-000741
Parasites/Diseases
86-000851
86-000879
86-000902
86-002947
86-002952
86-003040
86-003051
Parasitic Isopods
86-003051
Pollution
86-000950
Pond Culture
86-000041
86-001294
86-002067
86-002140
Predator Introductions
86-003308
RNA
86-001520

...CONTINUED...
Morone saxatilis
Starvation
86-001520
Stocking/Introductions
86-000722
86-001177
86-003239
86-004255
Supplemental Feeding
86-002140
Survival
86-000722
Temperature
86-000332
86-000643
86-002472
Thermal Pollution
86-000643
Thermal Stratification
86-000643
Vibrio
86-000879
Viral Diseases
86-000902
Moxostoma carinatum
Distribution/Geographical
86-002875
Moxostoma erythrurum
Distribution/Geographical
86-004683
Moxostoma valenciennesi
Distribution/Geographical
86-002875
Mugil
Culture/Propagation
86-002131
Fertilization/Soil and Water
86-002131
Mugil capito
Culture/Propagation
86-001312
86-002156
Diets
86-001312
86-002156
Feeding Experiments
86-001312
86-002156
Feeds
86-001312
Nutrition
86-001312
86-002156
Mugil cephalus
Cage Culture
86-002111
86-002121
Cardio-Vascular System
86-003777
Culture/Propagation
86-002110
86-002111
86-002115
86-002116
86-002121
86-003482
86-003507
Foods/Feeding
86-001664
86-004613
Gas Bubble Disease
86-000914
Gas Supersaturation
86-000914
Heated Water
86-002110

...CONTINUED...
Mugil cephalus
Ichthyophonus
86-005041
Induced Maturation
86-002561
86-003507
Life History/General
86-000522
Parasites/Diseases
86-000843
86-000914
86-005041
Polyculture
86-002115
Pond Culture
86-003482
Protozoan Diseases
86-005041
Reproduction
86-002561
Temperature
86-000914
86-002111
86-003945
Trophic Relationships
86-001664
Mugil chelo
Culture/Propagation
86-003482
Pond Culture
86-003482
Mugil curema
Aeromonas
86-000868
Aeromonas hydrophila
86-004983
Bacterial Diseases
86-000868
86-004983
Foods/Feeding
86-001664
Gyrodactylus
86-005091
Life History/General
86-000523
Parasites/Diseases
86-000844
86-000868
86-000913
86-004983
86-005091
86-005092
Parasitic Copepods
86-000913
Phagicola longa
86-005092
Salinity
86-002369
Trematodes
86-000913
86-005091
86-005092
Trophic Relationships
86-001664
Mugil incilis
Condition Factors
86-000737
Mugil robustus
Life History/General
86-004281
Mugilidae
Culture/Propagation
86-002081
Mugillidae
Identification/Larvae
86-004801
Mugiloidei
Early Development
86-004810
Taxonomy
86-004810
Mullidae
Foods/Feeding
86-004596
Mycteroperca phenax
Parasites/Diseases
86-000912
Tumors
86-000912
Myctophidae
Distribution/Geographical
86-000752
Distribution/Vertical
86-002768
Early Development
86-003758
Foods/Feeding
86-002768
Spawning
86-001645
Taxonomy
86-004879
Myctophiformes
Early Development
86-003766
Taxonomy
86-004877
Myctophum asperum
Distribution/Geographical
86-002871
Myersina
Taxonomy
86-004838
86-004839
Myersina lachneri
New Species
86-004838
86-004839
Mylio macrocephalus
Maturation
86-003983
Myliobatis freminvillei
Multicalyx cristata
86-005149
Parasites/Diseases
86-005149
Trematodes
86-005149
Mylopharodon conocephalus
Habitat Selection
86-004196
Temperature
86-004196
Myoxocephalus
Foods/Feeding
86-004542
Myoxocephalus octodecimspinosus
Blood Chemistry
86-002326
86-003903
Osmoregulation
86-002328
pH Regulation
86-002326
86-002328
Salinity
86-002328
Myoxocephalus scorpius
Blood Chemistry
86-003903
Excretory System
86-001462

...CONTINUED...
Myoxocephalus scorpius
Osmoregulation
86-001462
Myoxocephalus thompsoni
Abundance/Factors of
86-002879
Population Studies
86-002879
Predator/Prey Relationships
86-002879
Mystus
Taxonomy
86-004787
Mystus misrai
New Species
86-004787
Mystus nemurus
Foods/Feeding
86-004486
Mystus tengara
Blood Chemistry
86-000255
Myxine glutinosa
Biochemical Composition
86-004017
Cardio-Vascular System
86-004026
Digestive System
86-002375
Endocrinology
86-002371
Enzymes
86-002375
Excretory System
86-002371
Immune Response
86-004075
Insulin
86-003875
Musculature
86-003685
86-004017
Myxocephalus scorpius
Osmoregulation
86-004034
Nannacara anomala
Aggressive Behavior
86-004177
Nealotus tripes
Distribution/Geographical
86-004715
Negaprion brevirostris
Age/Growth
86-000724
Foods/Feeding
86-002798
Nemachilus barbatulus
Habitat Selection
86-004224
Parasites/Diseases
86-004915
Nemadactylus macropterus
Activity Patterns
86-004222
Habitat Selection
86-004222
Light
86-004222
Nematocharax
New Genus
86-002917
Nematocharax venustus
New Species
86-002917
Nematolosa vlaminghi
Age/Growth
86-002814
...CONTINUED...
Nematolosa vlaminghi
Condition Factors
86-002814
Nemipterus
Age/Growth
86-004297
Distribution/Geographical
86-004297
Distribution/Vertical
86-004297
Harvest
86-000557
Mortality Rates
86-004297
Nemipterus delagoae
Life History/General
86-000548
Taxonomy
86-000548
Nemipterus japonicus
Life History/General
86-000557
Neoceratodus forsteri
Otoliths
86-003710
Neocyema
New Genus
86-004802
Neocyema erythrosoma
New Species
86-004802
Neogobius melanostomus
Coprophagy
86-001567
Culture/Propagation
86-000035
Endocrinology
86-000035
Induced Maturation
86-000035
Nesiarchus nasutus
Distribution/Geographical
86-002858
Nessorhamphus ingolfianus
Distribution/Vertical
86-001590
Fish Lists/Keys
86-001590
Identification
86-001590
Life History/General
86-001590
Nettastoma melanurum
Distribution/Vertical
86-001590
Fish Lists/Keys
86-001590
Identification
86-001590
Life History/General
86-001590
Nezumia tinro
New Species
86-002910
Noemacheilus barbatulus
Activity Patterns
86-004166
Biomagnification
86-005159
Cadmium
86-005159
Foods/Feeding
86-001689
Foods/Feeding/Selectivity
86-004516

...CONTINUED...
Noemacheilus barbatulus
Heavy Metals
86-005159
Nortopis cornutus
Schooling Behavior
86-001530
Notacanthiformes
Distribution/Geographical
86-002851
Early Development
86-003691
Morphology
86-002851
Taxonomy
86-004897
Notemigonus crysoleucas
Channel Catfish Reovirus
86-002988
Chum Salmon Virus
86-002988
Gill Parasites
86-003009
Golden Shiner Virus
86-002988
Myxobolus
86-003009
Myxosporea
86-003009
Octosporella
86-000889
Parasites/Diseases
86-000889
86-002988
86-003009
Protozoan Diseases
86-000889
86-003009
Reovirus 13P2
86-002988
Viral Diseases
86-002988
Nothobranchius
Aquariums
86-002175
Culture/Propagation
86-002175
Distribution/Geographical
86-004699
Taxonomy
86-004699
Nothobranchius korthausae
Respiration
86-003951
Nothobranchius patrizii
Aquariums
86-003605
Culture/Propagation
86-003605
Nothobranchius rachowi
Bioassay Techniques
86-001926
Sister-Chromatid Exchange Assay
86-001926
Notolepis coatsi
Foods/Feeding
86-004615
Trophic Relationships
86-004615
Notopterus notopterus
Blood Chemistry
86-000255
Foods/Feeding
86-004486
Notorynchus pectorosus
Distribution/Geographical
86-004711
Notothenia microlepidota
Competition
86-000660
Foods/Feeding
86-000661
Foods/Feeding/Selectivity
86-000660
Notothenia neglecta
Bioenergetics
86-002292
Musculature
86-000185
86-002292
Notothenia rossii
Musculature
86-000283
Notothenia squamifrons
Abundance/Factors of
86-000791
Weather
86-000791
Notothenioidea
Early Development
86-004901
Taxonomy
86-004901
Nototheniops tchizh
Fecundity
86-002276
Sexual Dimorphism
86-002276
Taxonomy
86-002276
Notropis anogenus
Aldrin
86-005323
Heptachlor
86-005323
Insecticides
86-005323
Organochlorines
86-005323
Notropis calientis
Fish Lists/Keys
86-001764
Taxonomy
86-001764
Notropis chiliticus
Distribution/Geographical
86-004672
Status
86-004672
Notropis chrysocephalus
Variation Studies
86-000441
Notropis cornutus
Cadmium
86-005236
DCP
86-005236
Electrophoresis
86-001530
Heavy Metals
86-005236
Octosporella
86-000889
Osmoregulation
86-002302
Parasites/Diseases
86-000889
Pentachlorophenol
86-005236
Protozoan Diseases
86-000889
Variation Studies
86-000441

Notropis hubbsi
Life History/General
86-004240
Status
86-004240
Notropis hudsonius
Biomagnification
86-000968
Heavy Metals
86-000968
Mercury
86-000968
Organochlorines
86-000968
Polychlorinated Biphenyls
86-000968
Notropis leedsi
Spawning
86-002753
Notropis lutrensis
Fecundity
86-004397
Life History/General
86-004254
Spawning
86-004397
Temperature
86-002465
Notropis simus pecosensis
Life History/General
86-000535
Notropis spilopterus
Taxonomy
86-001783
Variation Studies
86-001783
Notropis venustus
Spawning
86-004403
Noturus
Fish Lists/Keys
86-002846
Noturus eleutherus
Life History/General
86-000558
Noturus flavus
Ligictaluridus posthon
86-000920
Parasites/Diseases
86-000920
Trematodes
86-000920
Noturus gyrinus
Life History/General
86-004299
Noturus insignis
Distribution/Geographical
86-002846
Status
86-002846
Noturus nocturnus
Distribution/Geographical
86-002863
Noturus placidus
Distribution/Geographical
86-002872
Odontaspis ferox
Distribution/Geographical
86-000760
86-004733
Odontesthes bonariensis
Life History/General
86-004295
Odontesthes mauleanum
Life History/General
86-004295
Odontogadus merlangus euxinus
Cannibalism
86-004593
Foods/Feeding
86-004593
Predator/Prey Relationships
86-004593
Ogcocephalidae
Aquariums
86-001325
Culture/Propagation
86-001325
Oligocottus
Taxonomy
86-002916
Oligocottus snyderi
Life History/General
86-001586
Oncorhychus keta
Culture/Propagation
86-002062
Oncorhynchus
Abundance/Factors of
86-002883
Cadmium
86-000987
Chlorinated Hydrocarbons
86-005188
Commercial Fishing
86-003327
Culture/Propagation
86-002047
86-002054
86-002144
Dams
86-001947
Diets
86-002144
Distribution/Factors of
86-004473
Distribution/Seasonal
86-004473
DNA
86-002543
Eggs
86-002510
Electrophoresis
86-000837
Endocrinology
86-000397
Feeding Experiments
86-002144
Filtration Systems
86-002054
Fish Passage
86-001196
86-003343
Fish Stocks
86-002718
Fishways
86-003343
Flow Regimes
86-005402
Foods/Feeding
86-002774
Forecasting
86-001610
86-002008
Forestry Practices
86-005379
86-005402
86-005412
86-005592
Gas Bubble Disease
86-005108

...CONTINUED...
Oncorhynchus
Gas Supersaturation
86-005108
Habitat Selection
86-005608
Harvest
86-002009
Heavy Metals
86-000987
Injuries
86-000931
Jurisdiction
86-003316
86-003318
86-003331
Leeches
86-001825
Life History/General
86-002679
86-004266
Magnetic Fields
86-002673
Management/Research--General
86-003169
86-003171
86-003175
86-003320
86-003327
86-003343
86-003351
86-005346
Management/Research--Marine
86-002009
86-003316
86-003318
86-003331
Management/Research--Rivers and Streams
86-003293
86-005586
86-005592
86-005608
Movements
86-004266
86-004473
Nets/Netting
86-001188
Orientation/Homing
86-002673
Osmoregulation
86-000397
Parasites/Diseases
86-000931
86-001825
86-005108
Piscicola salmositica
86-001825
Population Studies
86-001610
86-002008
86-002883
86-005608
Recirculating Systems
86-002054
Restoration of Anadromous Runs
86-003293
Riparian Habitat
86-005592
Sedimentation
86-005164
86-005412
Taxonomy
86-000837
Temperature
86-004473

Oncorhynchus gorbuscha
Abundance/Factors of
86-002878
86-004754
Blood Chemistry
86-003966
Cortisol
86-003966
Culture/Propagation
86-005103
Currents
86-004754
Distribution/Geographical
86-004680
Early Development
86-002221
Egg Survival
86-002221
Embryology
86-002221
Endocrinology
86-000437
Fish Stocks
86-002221
Flow Regimes
86-000552
Foods/Feeding
86-002688
Hatching Time
86-003979
Helminths
86-005126
Hybridization
86-004127
Life History/General
86-000552
86-002688
Maturation
86-003873
86-003966
Nervous System
86-000164
Oil
86-003148
Parasites/Diseases
86-005103
86-005126
Population Studies
86-002706
86-002878
Reproduction
86-003873
Spawning
86-004680
Spawning Migration
86-004412
86-004431
Temperature
86-003979
Transportation
86-005103
Oncorhynchus keta
Abundance/Factors of
86-000789
86-004745
Bacterial Diseases
86-002967
Biochemical Composition
86-000402
86-004038
Blood Chemistry
86-000339
Carotenoids
86-003940
Chloromyxum
86-005045

...CONTINUED...
Oncorhynchus keta
Culture/Propagation
86-000061
86-003397
86-003398
Diets
86-000061
Digestive System
86-004060
Egg Survival
86-000789
Endocrinology
86-000425
86-002308
86-002557
Enzymes
86-001483
86-001484
86-002295
86-004060
Feeding Experiments
86-000061
Fish Stocks
86-004135
86-004745
Flow Regimes
86-000532
Growth Hormone
86-000425
86-002308
86-002557
Hormones
86-002294
Hybridization
86-004090
Immunization
86-002967
Induced Maturation
86-002062
Life History/General
86-000532
86-001585
86-004262
Lipid Composition
86-002534
Lipid Metabolism
86-001398
Movements
86-000638
86-000650
86-004135
Musculature
86-002294
86-002295
86-004038
Myoxosporea
86-005045
Nervous System
86-000164
Nets/Netting
86-002722
Nutrition
86-000061
Parasites/Diseases
86-002938
86-002967
86-005045
86-005052
Population Studies
86-002722
Predator/Prey Relationships
86-004515
Production
86-002724
Protozoan Diseases
86-005045

...CONTINUED...
Oncorhynchus keta
Reproduction
86-001484
Spawning
86-002724
86-004411
Spawning Migration
86-001398
86-004135
86-004418
Steroids
86-002295
Swimming Performance
86-000505
86-000650
Temperature
86-000789
86-001351
Variation Studies
86-001351
86-004135
Vibriosis
86-002967
Viral Diseases
86-005052
Oncorhynchus kisutch
Abundance/Factors of
86-002886
86-004766
86-004775
86-005390
Artificial Streams
86-003407
Asbestos
86-001877
Blood Chemistry
86-000345
86-000350
86-000377
86-004054
86-004085
Ceratomyxa shasta
86-005032
Chemoreception
86-001570
86-002664
86-004208
Clearcutting
86-005378
86-005401
Commercial Fishing
86-001050
Competition
86-001556
86-004165
86-004178
Copper
86-003144
Corticosteroids
86-000350
Cortisol
86-004081
Culture/Propagation
86-002050
86-002052
86-003407
Digestive System
86-002331
Distribution/Factors of
86-005585
Egg Survival
86-000801
86-001755
Embryology
86-000359

...CONTINUED...
Oncorhynchus kisutch
Endocrinology
86-000239
86-000400
86-000435
86-002373
86-003996
86-004004
86-004013
86-004036
86-004081
Fecundity
86-000801
86-001755
Fish Stocks
86-001394
Foods/Feeding
86-000657
86-001662
86-001682
Foods/Feeding/Selectivity
86-004504
86-004515
86-004541
Forestry Practices
86-003189
86-005378
86-005390
86-005401
Glucose
86-002392
Habitat Selection
86-003189
86-004203
86-004775
86-005585
Heavy Metals
86-003144
Hormones
86-000359
86-000400
86-002551
Indian Treaty Rights
86-001050
Kudoa thyrsitis
86-005033
Life History/General
86-004270
Lipid Metabolism
86-000380
86-002392
86-004036
Liver
86-002473
Magnesium
86-000436
Management/Research--General
86-001050
Management/Research--Rivers and Streams
86-003191
86-004775
86-005378
Mercury
86-003144
Mortality Factors
86-004766
Movements
86-002763
86-002765
Net-Pen Culture
86-002052
Olfaction
86-003144
86-004209

...CONTINUED...
Oncorhynchus kisutch
Orientation/Homing
86-001570
Osmoregulation
86-001523
86-001916
86-004013
Parasites/Diseases
86-002979
86-004941
86-005032
86-005033
Parr-Smolt Transformation
86-000239
86-000350
86-000351
86-000380
86-001523
86-002331
86-002392
86-004081
86-004085
pH
86-001916
Pheromones
86-001570
Polymorphism
86-001394
Population Studies
86-000594
86-004376
86-004775
86-005585
Predator/Prey Relationships
86-001691
86-004504
86-004515
Production
86-004376
Proliferative Kidney Disease
86-002979
Protozoan Diseases
86-002979
86-005032
86-005033
Reproduction
86-002373
86-002551
Riparian Habitat
86-002886
Sex Determination
86-002050
Sibling Recognition
86-004208
Social Behavior
86-001569
Spawning
86-004438
Spawning Migration
86-004438
Starvation
86-002331
Steroids
86-000351
Stocking/Introductions
86-005474
Stream Improvement/General
86-003191
Stress
86-004054
Supplemental Stocking
86-005474
Suspended Solids
86-000941
Swimming Performance
86-001576

...CONTINUED...
Oncorhynchus kisutch
Temperature
86-004054
86-004766
86-005390
Turbidity
86-000941
Unisex Populations
86-002050
Upwelling
86-004766
Urban Development
86-005411
Zinc
86-003144
Oncorhynchus masou
Cestodes
86-003000
Culture/Propagation
86-002155
86-003408
Diets
86-002155
Diphyllobothrium latum
86-003000
Feeding Experiments
86-002155
Fertilization
86-003408
Foods/Feeding
86-002803
86-004517
Gyrodactylus masu
86-005129
Hybridization
86-004127
Maturation
86-002760
Osmoregulation
86-002438
Parasites/Diseases
86-003000
86-005129
Parr-Smolt Transformation
86-002438
86-002448
86-002803
Trematodes
86-005129
Oncorhynchus nerka
Abundance/Factors of
86-002694
86-004365
86-004754
Age/Growth
86-000720
86-004635
Bioenergetics
86-004310
86-004430
Blood Chemistry
86-000377
Chemoreception
86-004189
Competition
86-002799
Corpuscle of Stannius
86-004068
Currents
86-004754
Egg Size
86-000567
Electrophoresis
86-002627
Endocrinology
86-004068

...CONTINUED...
Oncorhynchus nerka
Fecundity
86-004416
Fish Stocks
86-000567
Foods/Feeding
86-004506
Forecasting
86-003324
Fry Traps
86-003255
Harvest
86-005437
Henneguya salminicola
86-000883
Hormones
86-002545
Life History/General
86-001937
86-002694
Liver
86-002473
Management/Research--General
86-001937
86-004365
Management/Research--Rivers and Streams
86-004419
Marking/Tagging
86-005460
Maturation
86-000355
86-002409
86-002545
86-004365
Meristic Studies
86-000126
Mortality Rates
86-004310
86-004635
Orientation/Homing
86-004189
Parasites/Diseases
86-000883
86-005127
Parr-Smolt Transformation
86-002409
Population Genetics
86-000466
Population Studies
86-002409
86-004310
86-004365
86-005437
86-005720
Predator/Prey Relationships
86-002799
Protozoan Diseases
86-000883
Reproduction
86-002545
86-004416
Scales
86-000720
86-003690
Sex Ratios
86-004430
Spawning
86-004430
Spawning Migration
86-000607
86-001650
86-004419
Tetracycline
86-005460

...CONTINUED...
Oncorhynchus nerka
Trophic Relationships
86-002694
Ultrasound Imaging
86-000883
Variation Studies
86-000126
86-002627
Visceral Adhesions
86-005127
Oncorhynchus rhodurus
Endocrinology
86-000338
86-002471
Gyrodactylus masu
86-005129
Parasites/Diseases
86-005129
Parr-Smolt Transformation
86-002471
Reproduction
86-000338
Trematodes
86-005129
Oncorhynchus tshawytscha
Age/Growth
86-000734
86-000747
86-002265
86-004629
86-004646
Aggressive Behavior
86-004220
Bacterial Diseases
86-002943
86-002949
Bacterial Kidney Disease
86-002943
Biochemical Composition
86-003896
Blood
86-002394
Blood Chemistry
86-002394
Cataracts
86-003036
Ceratomyxa shasta
86-000882
86-001811
Chinook Salmon Rosette Disease
86-005101
Chlorinated Hydrocarbons
86-003101
Competition
86-000497
Culture/Propagation
86-000018
86-002049
86-002050
86-002052
86-002518
86-003565
86-004086
Dams
86-003267
Distribution/Seasonal
86-002690
Endocrinology
86-002529
86-003840
Feeding Experiments
86-003565
Feeds
86-003565
Fish Passage
86-003267

...CONTINUED...
Oncorhynchus tshawytscha
Fish Stocks
86-000163
86-000458
86-000584
Flow Regimes
86-001655
86-004392
Foods/Feeding
86-000657
86-001662
86-002690
86-004535
Glomerulonephritis
86-000924
Habitat Selection
86-000497
86-002631
86-002690
86-004272
Handling Mortality
86-002518
Impingement/Entrainment
86-003268
Induced Maturation
86-004086
Lake Culture
86-002049
Life History/General
86-004226
86-004272
86-004293
Magnetic Fields
86-002671
Magnetite
86-000491
Management/Research--General
86-000458
86-001048
Management/Research--Rivers and Streams
86-005603
Maturation
86-000608
86-004086
86-004646
Mortality Rates
86-004646
Movements
86-001655
86-002763
86-002765
86-004293
Nematodes
86-001837
Net-Pen Culture
86-002052
Nutrition
86-003565
Nutritional Diseases
86-003036
Orientation/Homing
86-000491
86-002671
Osmoregulation
86-001523
Otoliths
86-000163
86-000734
86-003895
86-003896
Parasites/Diseases
86-000882
86-000924
86-001811

...CONTINUED...
Oncorhynchus tshawytscha
Parasites/Diseases
86-001837
86-002943
86-002949
86-002979
86-003036
86-005072
86-005098
86-005101
Parr-Smolt Transformation
86-001523
86-004086
Pineal Body
86-003840
Population Studies
86-004337
Production
86-002049
Proliferative Kidney Disease
86-002979
Protozoan Diseases
86-000882
86-001811
86-002979
Renibacterium
86-002949
Rheotropism
86-004220
Rosette Agent
86-005098
Sex Determination
86-002050
Sodium Pentachlorophenate
86-002949
Spawning
86-004392
Spawning Channels
86-000018
Stress
86-002300
86-002464
86-002518
86-003267
Temperature
86-000734
86-003896
Territorial Behavior
86-000497
Trophic Relationships
86-000497
Unisex Populations
86-002050
Variation Studies
86-000458
Viral Diseases
86-005072
Otoliths
86-002265
Ophicephalus micropeltes
Foods/Feeding
86-004486
Ophicephalus striatus
Age/Growth
86-004265
Fecundity
86-004265
Spawning
86-004265
Ophichthidae
Early Development
86-004861
Taxonomy
86-004861
Ophidiiformes
Early Development
86-004829
...CONTINUED...
Ophidiiformes
Taxonomy
86-004829
Ophiocephalus punctatus
Enzymes
86-002520
Liver
86-002520
Ophiocephalus striatus
Culture/Propagation
86-000049
Enzymes
86-002520
Liver
86-002520
Parasites/Diseases
86-002998
Viral Diseases
86-002998
Oplegnathus fasciatus
Culture/Propagation
86-003434
Hybridization
86-003434
Oplegnathus punctatus
Culture/Propagation
86-003434
Hybridization
86-003434
Opsanus beta
Chlorpyrifos
86-001903
Insecticides
86-001903
Opsanus tau
Acoustico-Lateralis System
86-001368
Enzymes
86-002430
Excretory System
86-002361
86-002430
86-002572
Heavy Metals
86-000996
Mutagens
86-001539
Nervous System
86-001368
Protein Synthesis
86-002361
Optocyclus ventricosus
Life History/General
86-004300
Oreochromis
Culture/Propagation
86-000465
Digestive System
86-003785
DNA
86-001537
Hybridization
86-000465
Karyotypes
86-001537
Oreochromis aureus
Biomagnification
86-003137
Culture/Propagation
86-000038
86-000042
86-003478
Electrophoresis
86-004097
Enzymes
86-001396

...CONTINUED...
Oreochromis aureus
Fertilization/Soil and Water
86-000042
86-003478
Hermaphroditism
86-001412
Identification
86-002227
Insecticides
86-003137
Lindane
86-003137
Polymorphism
86-004097
Pond Culture
86-003478
Reproduction
86-001412
Scales
86-002227
Triploid Fish
86-004105
Unisex Populations
86-000038
Oreochromis mossambicus
ATP
86-001433
86-002341
Calcium
86-001431
86-001432
Dolops ranarum
86-001823
Endocrinology
86-000196
86-000257
86-000344
86-000393
86-001432
86-004015
Fish Processing Effluents
86-005229
Foods/Feeding
86-001315
86-004502
Gills
86-000151
Growth Hormone
86-000344
86-004015
Habitat Selection
86-004169
Hormones
86-002341
Life History/General
86-004229
Nutrition
86-001315
Osmoregulation
86-001433
86-002341
Parasites/Diseases
86-001823
Parasitic Copepods
86-001823
Stress
86-000193
Temperature
86-000151
Oreochromis niloticus
Anesthetics
86-003162
Ascorbic Acid
86-002160
Aspergillus flavus
86-002970

...CONTINUED...
Oreochromis niloticus
Biomagnification
86-003137
Culture/Propagation
86-000038
86-000064
86-002104
86-002160
Ethanol
86-003162
Eugenol
86-003162
Feeding Experiments
86-000064
86-002160
Feeds
86-000064
Foods/Feeding/Selectivity
86-002773
Fungal Diseases
86-002970
Identification
86-002227
Insecticides
86-003137
Lactate Dehydrogenase
86-002353
Lindane
86-003137
Metabolic Rates
86-003866
Nutrition
86-002160
Parasites/Diseases
86-002970
pH
86-002353
Phagocytosis
86-004049
Reproduction
86-000426
Salinity
86-000426
86-000427
Scales
86-002227
Tank Culture
86-002104
Temperature
86-002353
Unisex Populations
86-000038
Oreodaimon quathlambae
Coloration
86-003793
Nuptial Tubercles
86-003793
Oreoleuciscus
Meristic Studies
86-000127
Taxonomy
86-001786
Variation Studies
86-000127
Orestias
Evolution
86-004719
Speciation
86-004719
Taxonomy
86-004719
Trophic Relationships
86-004525
Zoogeography
86-004719

Oryzias latipes
Biomagnification
86-001860
Cadmium
86-003131
Carcinogens
86-005265
86-005268
Cloning
86-000461
Coloration
86-000341
Electrophoresis
86-002613
Heavy Metals
86-000988
86-003131
Hormones
86-003991
Hyxachlorobenzene
86-001860
Melanophores
86-001371
86-002263
Mercury
86-000988
Mutagens
86-004108
Parasites/Diseases
86-005265
86-005268
Permethrin
86-000988
Pigments
86-000341
86-002263
Radiation
86-000382
Reproductive System
86-002255
Steroids
86-003991
Temperature
86-000382
Tumors
86-005265
86-005268
Variation Studies
86-002613
Oryzias luzonensis
Karyotypes
86-000442
Speciation
86-000442
Oryzias mekongensis
Karyotypes
86-002914
New Species
86-002914
Oryzias minutillus
Karyotypes
86-000457
Osmeridae
Early Development
86-004834
Taxonomy
86-004834
Osmerus eperlanus
Acanthocephala
86-000933
Foods/Feeding
86-000701
Nematodes
86-000933
Parasites/Diseases
86-000933

...CONTINUED...
Osmerus eperlanus
Population Studies
86-000578
Predator/Prey Relationships
86-000679
Trophic Relationships
86-000679
Osmerus mordax
Competition
86-004498
Distribution/Factors of
86-000647
Distribution/Vertical
86-000634
Foods/Feeding
86-000654
86-004498
Harvest
86-001957
Predator/Prey Relationships
86-004554
Spawning
86-002758
Tides
86-000647
Osphronemus goramy
Foods/Feeding
86-004486
Ostariophysi
Early Development
86-004827
Taxonomy
86-004827
Osteochilus hasselti
Foods/Feeding
86-004486
Osteochilus melanopleura
Foods/Feeding
86-004486
Osteoglossum bicirrhosum
Hypothalamic-Hypophyseal System
86-000269
Ostraciidae
Aquariums
86-001330
Culture/Propagation
86-001330
Otolighes argenteus
Culture/Propagation
86-002689
Otolithes argenteus
Age/Growth
86-002689
86-002835
Management/Research--Marine
86-002728
Maturation
86-002689
Population Studies
86-002728
Spawning
86-002689
Oxylebius pictus
Coloration
86-000478
Social Behavior
86-000478
Spawning
86-000478
Pachymetopon aeneum
Age/Growth
86-002680
Foods/Feeding
86-002680
Life History/General
86-002680

...CONTINUED...
Pachymetopon aeneum
Spawning
86-002680
Padogobius martensi
Sound Production
86-001577
Pagellus acarne
Bacterial Diseases
86-004965
Culture/Propagation
86-003500
Fry Production
86-003500
Parasites/Diseases
86-004965
Reproduction
86-002501
Steroids
86-002501
Vibrio
86-004965
Pagellus erythrinus
Foods/Feeding
86-002776
Pagothenia borchgrevinki
Antifreeze Production
86-002314
Biomagnification
86-005172
Heavy Metals
86-005172
Melanophores
86-002267
Metabolism
86-003956
Nervous System
86-002267
Temperature
86-000500
86-003956
Vision
86-000500
Pagrus major
Amino Acids
86-000493
Culture/Propagation
86-000081
86-000082
Diets
86-000082
Egg Quality
86-000081
Eggs
86-000170
Epitheliocystis
86-002981
Feeding Experiments
86-000081
86-000082
Gall Bladder
86-001498
Nutrition
86-000081
Olfaction
86-000493
Parasites/Diseases
86-002981
Protozoan Diseases
86-002981
Rigor Mortis
86-002413
Pampus argenteus
Mortality Rates
86-004359
Population Studies
86-004359
Pangasiidae
Culture/Propagation
86-003474
Hybridization
86-003474
Pangasius sutchi
Air Breathing
86-000212
Respiration
86-000212
Parablennius marmoreus
Mouth Parts
86-001377
Parablennius pilicornis
Distribution/Geographical
86-002585
Karyotypes
86-002585
Parablennius serratolineatus
New Species
86-004792
Parablennius tasmanianus postoculomaculatus
New Subspecies
86-004792
Paracheirodon innesi
Aquariums
86-000103
Culture/Propagation
86-000103
Paralabrax humeralis
Hatschekia affluens
86-001847
Hatschekia amphiprocessa
86-001847
Parasites/Diseases
86-001847
Parasitic Copepods
86-001847
Paralichthys californicus
Life History/General
86-004268
Paralichthys oblongus
Age/Growth
86-002838
Length-Weight Relationships
86-002838
Paralichthys olivaceus
Age/Growth
86-004650
Albinism
86-000171
Atrial Thrombus
86-005102
Cryptocaryon irritans
86-001813
Early Development
86-002236
Endocrinology
86-000279
Gill Parasites
86-005034
Hormones
86-000279
Metamorphosis
86-000279
86-004650
Parasites/Diseases
86-001813
86-005102
Protozoan Diseases
86-001813
86-005034
Temperature
86-004650
White Spot Disease
86-001813

...CONTINUED...
Paralichthys olivaceus
White Spot Disease
86-005034
Paraliparis calidus
Distribution/Geographical
86-000750
Spawning
86-000750
Paraliparis copei
Distribution/Geographical
86-000750
Spawning
86-000750
Paramyxine atami
Enzymes
86-002576
Paranthias furcifer
Nerocila acuminata
86-003034
Parasites/Diseases
86-003034
Parasitic Isopods
86-003034
Parapristipoma trilineatum
Salinity
86-000290
Temperature
86-000290
Parasilurus asotus
Cestodes
86-001831
Electroreception
86-003826
Gangesia parasiluri
86-001831
Parasites/Diseases
86-001831
Paratilapia thomasi
Taxonomy
86-002896
Parika scaber
Otonconia
86-003709
Parma victoriae
Foods/Feeding/Selectivity
86-002782
Territorial Behavior
86-002782
Parmaturus macmillani
New Species
86-000821
Parophrys vetulus
Aromatic Hydrocarbons
86-000955
86-005242
Blood Chemistry
86-000909
Cadmium
86-001917
Carbon Tetrachloride
86-005239
Distribution/Seasonal
86-002727
Gyrodactylus stellatus
86-003023
Heavy Metals
86-001917
Hepatic Lesions
86-000955
Liver Lesions
86-000909
Oil
86-001917
Parasites/Diseases
86-000909
...CONTINUED...
Parophrys vetulus
Parasites/Diseases
86-000955
86-003023
Polychlorinated Biphenyls
86-001917
Population Studies
86-002727
Trematodes
86-003023
Parosphromenus filamentosus
Aquariums
86-001331
Culture/Propagation
86-001331
Parupeneus barberinus
Foods/Feeding
86-000708
Patalichthys olivaceus
Parasites/Diseases
86-005034
Paulicea lutkeni
Cestodes
86-003012
Jauela glandicephalus
86-003012
Megathylacus brooksi
86-003012
Parasites/Diseases
86-003012
Pavoclinus smalei
New Species
86-004835
Pelvicachromis pulcher
Aquariums
86-002178
Culture/Propagation
86-002178
Perca flavescens
Abundance/Factors of
86-001761
Activity Patterns
86-001164
Age/Growth
86-004259
Artificial Reefs
86-001080
Biochemical Composition
86-003918
Competition
86-002797
86-004514
Culture/Propagation
86-001337
86-002146
86-003436
Diets
86-002146
Dioxin
86-003115
Distribution/Factors of
86-004474
Distribution/Seasonal
86-004474
Egg Predation
86-002266
Eggs
86-002266
Endocrinology
86-000318
Feeding Experiments
86-002146
Foods/Feeding
86-000668
86-004259

...CONTINUED...
Perca flavescens
Foods/Feeding
86-004494
86-004604
Growth Hormone
86-000318
Hormones
86-000318
Light
86-002754
Management/Research--Lakes
86-001080
86-001761
Marking/Tagging/General
86-001164
Mortality Rates
86-004259
Oxygen
86-004474
Piscicides
86-003168
Population Studies
86-000566
86-001761
86-004382
Predator/Prey Relationships
86-004514
Pulp Mill Effluents
86-001914
Rotenone
86-003168
Sex Determination
86-001337
Spawning
86-002754
Steroids
86-001469
Telemetry
86-001164
Temperature
86-002754
Trophic Relationships
86-004382
Perca fluviatilis
Abundance/Factors of
86-000581
86-002888
86-004749
Activity Patterns
86-001164
86-004581
Age/Growth
86-000581
86-001704
86-002821
86-004630
86-005221
Ammonia
86-003152
Biomass
86-000589
Cardio-Vascular System
86-002421
Cestodes
86-005105
Competition
86-002888
Copper
86-001885
86-001886
Cyanide
86-003152
Enzymes
86-002421
Eulan WA New
86-003124

...CONTINUED...
Perca fluviatilis
Foods/Feeding
86-004580
86-004581
86-005221
Foods/Feeding/Selectivity
86-002789
86-004516
Heavy Metals
86-001885
86-001886
Marking/Tagging/General
86-001164
Meristic Studies
86-003800
Mortality Rates
86-005221
Movements
86-000628
86-004442
Nitrite
86-003152
Parasites/Diseases
86-005056
86-005105
pH
86-001033
Phenols
86-003152
Population Studies
86-000589
86-004331
86-004381
Production
86-000589
Telemetry
86-001164
Temperature
86-000628
86-002821
86-005221
Thermal Pollution
86-002821
86-005221
Triaenophorus nodulosus
86-005105
Viral Diseases
86-005056
Year Class Strength
86-000581
Percidae
Life History/General
86-001591
Percina
Skeletal System
86-003767
Percina evides
Distribution/Factors of
86-002643
Distribution/Geographical
86-002643
Habitat Selection
86-002643
Percina maculata
Taxonomy
86-004794
Percina nasuta
Distribution/Geographical
86-002872
Percina palmaris
Life History/General
86-002703
Percoidei
Early Development
86-004850

...CONTINUED...
Percoidei
Taxonomy
86-004850
Percopsis omiscomaycus
Age/Growth
86-000736
Pericidae
Spawning
86-001646
Periophthalmus koelreuteri
Head Kidney
86-001386
Petenia kraussii
Foods/Feeding/Selectivity
86-004527
Petrocephalus bovei
Foods/Feeding
86-002781
Petromyzon marinus
Age/Growth
86-004658
Biochemical Composition
86-002458
86-002508
Blood Chemistry
86-000229
Catecholamines
86-000229
Chemoreception
86-002650
Chromaffin Tissue
86-000229
Collagen
86-004035
Electrophoresis
86-001531
Electroreception
86-002503
Embryology
86-001440
Endocrinology
86-001428
86-004076
Fish Control/Removal
86-003224
Foods/Feeding
86-004497
Growth Hormone
86-004076
Heavy Metals
86-005286
Immune Response
86-002483
86-004075
Iron
86-002508
Lamprey Control
86-001965
86-003224
Lamprey Parasitism
86-000919
Liver
86-002288
Locomotion
86-000263
Mercury
86-005286
Nervous System
86-000263
86-000408
86-002330
Piscicides
86-001965
86-003224
Predator/Prey Relationships
86-000919

...CONTINUED...
Petromyzon marinus
Predator/Prey Relationships
86-004497
Regeneration
86-002330
Serotonin
86-000263
TFM
86-001965
86-003224
Twinning
86-001440
Variation Studies
86-001534
Petromyzontidae
Cardio-Vascular System
86-002271
Evolution
86-003814
86-004793
Foods/Feeding
86-004495
86-004496
Nervous System
86-003683
Petrus rupestris
Foods/Feeding
86-004595
Phaeoptyx
Karyotypes
86-002611
Taxonomy
86-002611
Phenacostethus trewavase
New Species
86-002905
Phoxinus eos
Cloning
86-000449
Early Development
86-000138
86-001361
Hybridization
86-000449
Phoxinus neogaeus
Cloning
86-000449
Hybridization
86-000449
Phoxinus phoxinus
Alarm Substances
86-001491
Cestodes
86-005105
Enzymes
86-005282
Length-Weight Relationships
86-002841
Meristic Studies
86-002901
Parasites/Diseases
86-005105
Pineal Body
86-003981
Predator/Prey Relationships
86-002661
86-004490
Steroids
86-001491
Taxonomy
86-002901
Toxicology
86-005282
Triaenophorus nodulosus
86-005105

Physiculus cynodon
New Species
86-002911
Physiculus marisrubri
New Species
86-004800
Physiculus maximowiczi
Distribution/Geographical
86-000153
Early Development
86-000153
Eggs
86-000153
Physiculus normani
New Species
86-004800
Pimelodina
Taxonomy
86-004902
Pimelodus maculatus
Gap Junction
86-000141
Pimelometopon maculatus
Hatschekia affluens
86-001847
Hatschekia amphiprocessa
86-001847
Parasites/Diseases
86-001847
Parasitic Copepods
86-001847
Pimephales promelas
Acrylamide
86-003117
Alarm Reaction
86-001573
Alpha-Terthienyl
86-001932
Ammonia
86-003128
86-003159
Aromatic Hydrocarbons
86-005297
Arsenic
86-005315
Bayer 73
86-001043
Cadmium
86-005262
86-005315
Carcinogens
86-005265
Chromium
86-005315
Copper
86-005315
Culture/Propagation
86-001336
DBNPA
86-001009
Dioxin
86-001911
DMF
86-005303
Escape Behavior
86-004612
Flocculants
86-003091
Fluridone
86-001902
Heavy Metals
86-005262
86-005315
Lead
86-005315

...CONTINUED...
Pimephales promelas
Mercury
86-005315
Methanol
86-005303
Oil Shale Effluents
86-001037
Parasites/Diseases
86-005265
Pentachlorophenol
86-003107
Pesticides
86-001043
Phosphate Esters
86-001884
Piscicides
86-001336
86-001932
Predator/Prey Relationships
86-004612
Selenium
86-001455
86-001456
86-005233
Sodium Pentachlorophenate
86-005262
Solvents
86-005303
Synthetic Polyelectrolytes
86-003091
TFM
86-001043
86-001336
Trace Metals
86-005233
Tumors
86-005265
Platichthys flesus
Blood Chemistry
86-002379
86-002524
Cage Culture
86-003394
Coelenterate Predation
86-000809
Culture/Propagation
86-003394
Enzymes
86-002506
Foods/Feeding/Selectivity
86-000680
Hexachlorobenzene
86-001907
Kudoa
86-005042
Musculature
86-001451
Osmoregulation
86-000232
Polyculture
86-003394
Predator/Prey Relationships
86-000809
Protozoan Diseases
86-005042
Surfactants
86-005213
Temperature
86-001451
Xenobiotics
86-001027
Platichthys flesus luscus
Harvest
86-004250
Life History/General
86-004250

Platichthys stellatus
Aromatic Amines
86-003116
Platyrhinoidis triseriata
Electroreception
86-002513
Nervous System
86-002513
Plecoglossus altivelis
Aeromonas hydrophila
86-004985
Bacterial Diseases
86-000862
86-001805
86-001806
86-004945
86-004946
86-004975
86-004985
86-004989
86-004994
Chloride Cells
86-000152
Culture/Propagation
86-002617
86-002618
86-003554
Diets
86-003554
Early Development
86-002235
Eggs
86-001166
Embryology
86-000152
Endocrinology
86-003909
Feeding Experiments
86-003554
Feeds
86-003554
Fungal Diseases
86-002969
86-005020
Ichthyophonus Disease
86-005020
Ichthyophonus hoferi
86-001806
86-005020
Immunization
86-004945
86-004975
Marking/Tagging
86-001166
Nets/Netting
86-003253
Osmoregulation
86-003909
Parasites/Diseases
86-000862
86-001805
86-001806
86-002969
86-004945
86-004946
86-004975
86-004985
86-004989
86-004994
86-005020
Phoma
86-002969
Polyploidy
86-002617
86-002618

...CONTINUED...
Plecoglossus altivelis
Pseudomonas anguillisepatica
86-004989
Salinity
86-000152
Streptococcus
86-004994
Tetracycline
86-001166
Triploid Fish
86-002617
86-002618
Variation Studies
86-000462
Vibrio anguillarum
86-000862
86-004946
86-004975
Vibriosis
86-004945
Plesiops cephalotaenia
Distribution/Geographical
86-004892
Plesiops nakaharae
Taxonomy
86-004892
Pleuragramma antarcticum
Body Form
86-004175
Buoyancy Adjustment
86-004175
Foods/Feeding
86-004615
Life History/General
86-004260
Trophic Relationships
86-004615
Pleurogrammus monopterygius
Auditory Senses
86-000506
Pleuronectes
Injuries
86-005112
Pleuronectes platessa
Abundance/Factors of
86-000812
Acoustico-Lateralis System
86-003762
Acute Inflammatory Response
86-000934
Age/Growth
86-002826
Biochemical Composition
86-002334
Blood Chemistry
86-004072
Cadmium
86-001899
Calcium
86-002334
Coelenterate Predation
86-000809
Distribution/Vertical
86-002707
Early Development
86-003762
Eggs
86-003697
Foods/Feeding
86-001659
86-004618
Heavy Metals
86-001899
Ichthyobodo necator
86-000884

...CONTINUED...
Pleuronectes platessa
Immune Response
86-002306
Iron
86-002334
Leucocyte Migration
86-001467
Lipid Composition
86-002564
Maturation
86-002826
Mercuric Chloride
86-005257
Mortality Factors
86-000812
Mortality Rates
86-002707
86-002739
Movements
86-002707
86-002739
Osmoregulation
86-004034
Parasites/Diseases
86-000884
86-000934
Population Studies
86-000812
86-001604
86-002707
86-002739
Predator/Prey Relationships
86-000809
Production
86-001604
Protozoan Diseases
86-000884
Recruitment
86-000812
Starvation
86-004072
Stress
86-004072
Sunburn
86-000884
Pleuronectes stellatus
Auditory Senses
86-000506
Pleuronectidae
Abundance/Factors of
86-004767
Eutrophication
86-004767
Lymphocystis
86-005067
Nets/Netting
86-005521
Parasites/Diseases
86-005067
Salinity
86-004767
Temperature
86-004767
Trawls
86-005521
Tumors
86-005067
Viral Diseases
86-005067
Pleuronectiformes
Abnormalities
86-003708
Early Development
86-003679
Taxonomy
86-004836
Pleuronichthys cornutus
Age/Growth
86-001700
Life History/General
86-000547
Pneumatophorus japonicus
Schooling Behavior
86-001558
Podothecus gilberti
Foods/Feeding
86-000694
Poecilia
Hybridization
86-001652
Spawning
86-001652
Unisex Populations
86-001652
Poecilia formosa
Cloning
86-004439
Spawning
86-004439
Unisex Populations
86-004439
Poecilia gracilis
Light
86-000216
Poecilia latipinna
Endocrinology
86-002390
86-002391
86-002426
Foods/Feeding
86-001664
Immune Response
86-003834
Pituitary
86-002220
86-003834
Reproduction
86-000413
86-002390
86-002391
86-002426
86-002522
Spawning
86-002750
86-004396
Steroids
86-002390
86-002426
Temperature
86-002522
Trophic Relationships
86-001664
Poecilia mexicana
Baitfish Culture
86-002097
Cannibalism
86-002071
Culture/Propagation
86-002071
86-002097
Pond Culture
86-002097
Poecilia reticulata
Aluminum
86-005215
Anisoles
86-003147
Bacterial Diseases
86-001413
Bacterial Flora
86-001413

...CONTINUED...
Poecilia reticulata
Carboxylic Acid
86-003147
Carcinogens
86-003136
86-005265
Cell Culture
86-002451
Clinostomum complanatum
86-005125
Coal Leachates
86-005215
Coloration
86-000619
Culture/Propagation
86-001293
Diethylnitrosamine
86-003136
Dithiocarbamates
86-001031
Endocrinology
86-000301
86-000302
Escape Behavior
86-004186
86-004187
Foods/Feeding/Selectivity
86-004598
Gyrodactylus bullatarudis
86-000923
86-000928
86-005139
Habitat Selection
86-002656
Heavy Metals
86-003149
86-005215
Hormones
86-000301
Parasites/Diseases
86-000923
86-000928
86-001413
86-003136
86-005125
86-005139
86-005265
Pesticides
86-001031
Phenols
86-003147
Pheromones
86-000490
86-001560
Pigments
86-002339
Predator/Prey Relationships
86-004186
Reproduction
86-000301
Sexual Dimorphism
86-000597
Spawning
86-000597
86-000619
86-001641
Temperature
86-001560
Temperature Selection
86-000490
Trematodes
86-000923
86-000928
86-005125
86-005139

...CONTINUED...
Poecilia reticulata
Tumors
86-003136
86-005265
Zinc
86-003149
Poecilia sphenops
Light
86-000216
Reproduction
86-000216
Poecilia vittata
Baitfish Culture
86-002097
Cannibalism
86-002071
Culture/Propagation
86-002071
86-002097
Pond Culture
86-002097
Poeciliidae
Baitfish Culture
86-002107
Culture/Propagation
86-002107
Scales
86-001369
Poeciliopsis
Carcinogens
86-005314
DEN
86-005314
DMBA
86-005314
Parasites/Diseases
86-005314
Tumors
86-005314
Poeciliopsis gracilis
Reproduction
86-000216
Poeciliopsis lucida
Hybridization
86-001638
Spawning Behavior
86-001638
Unisex Populations
86-001536
86-001638
Poeciliopsis monacha
Hybridization
86-001638
Spawning Behavior
86-001638
Unisex Populations
86-001536
86-001638
Variation Studies
86-004152
Poeciliopsis monacha-occidentalis
Unisex Populations
86-004089
Variation Studies
86-004089
Poeciliopsis occidentalis
Abundance/Factors of
86-004762
Floods
86-004762
Managment/Research--General
86-005477
Population Studies
86-004762
Predator/Prey Relationships
86-004562

...CONTINUED...
Poeciliopsis occidentalis
Status
86-004354
Stocking/Introductions
86-005477
Poecillia reticulata
Offspring Size
86-004143
Pogonias cromis
Cage Culture
86-002027
86-002110
86-002121
86-002122
Culture/Propagation
86-002027
86-002080
86-002110
86-002115
86-002121
86-002122
86-002127
Distribution/Geographical
86-004685
Heated Water
86-002027
86-002110
Hybridization
86-002080
Life History/General
86-004290
Polyculture
86-002115
86-002127
Pond Culture
86-002080
86-002127
Power Plant Effluents
86-002027
86-002110
Pogonophryne
Taxonomy
86-004814
Pollachius pollachius
Acoustical Methods
86-003361
Swimbladder
86-003361
Pollachius virens
Acoustical Methods
86-003361
Helminths
86-001851
Otoliths
86-003799
Parasites/Diseases
86-000856
86-000908
86-001851
Swimbladder
86-003361
Tumors
86-000908
Pollimyrus adspersus
Foods/Feeding
86-002781
Pollimyrus isidori
Communication
86-004171
Sound Production
86-004171
Polyipnus matsubarai
Foods/Feeding
86-004544
Meristic Studies
86-004544
Polymixia berndti
Life History/General
86-004267
Polynemoidei
Early Development
86-004812
Taxonomy
86-004812
Polyodon spathula
Bibliographies
86-005736
Channelization
86-005413
86-005417
Commercial Fishing
86-005602
Culture/Propagation
86-003433
86-003466
86-005342
Distribution/Geographical
86-004684
Dredging
86-005417
Fingerling Stocking
86-005472
Habitat Alterations
86-005413
Impoundment
86-005413
86-005417
Life History/General
86-004282
86-005342
Management/Research--Rivers and Streams
86-005445
86-005472
86-005589
86-005602
Management/Research/General
86-005342
Nuptial Tubercles
86-003732
Regulations
86-005445
Spawning
86-004437
Stocking/Introductions
86-005472
Polyprion oxygeneios
Fecundity
86-004414
Reproduction
86-004414
Spawning
86-004414
Polypterus ornatipinnis
Aquariums
86-001324
Culture/Propagation
86-001324
Polypterus palmas
Nervous System
86-002284
Olfaction
86-002284
Polysteganus praeorbitalis
Foods/Feeding
86-004595
Pomacanthidae
Aquariums
86-000089
Culture/Propagation
86-000089

Pomacentridae
El Nino
86-002741
Population Studies
86-002741
Reef Fish Communities
86-002741
Symbiosis
86-001554
Pomacentrus nigromarginatus
New Species
86-004784
Pomacentrus partitus
Parasites/Diseases
86-001849
Tumors
86-001849
Pomacentrus popei
Abundance/Factors of
86-000508
Aggressive Behavior
86-000508
Pomadasys commersonni
Metabolic Rates
86-002354
Respiration
86-002354
Pomadasys hasta
Parasites/Diseases
86-005109
Trematodes
86-005109
Pomastomus saltatrix
Foods/Feeding
86-002800
Pomatomus saltatrix
Harvest
86-001960
Marking/Tagging
86-005463
Movements
86-001960
Pomatoschistus
Spawning
86-002757
Pomatoschistus microps
Foods/Feeding
86-001677
Foods/Feeding/Selectivity
86-000680
Habitat Selection
86-002804
Karyotypes
86-002624
Predator/Prey Relationships
86-002804
Pomatoschistus minutus
Foods/Feeding/Selectivity
86-000680
Habitat Selection
86-002804
Predator/Prey Relationships
86-002804
Pomoxis annularis
Age/Growth
86-002812
Culture/Propagation
86-002584
Fish Control/Removal
86-003308
Foods/Feeding
86-004485
86-004572
Hybridization
86-002584

...CONTINUED...
Pomoxis annularis
Management/Research--Ponds
86-003308
Turbidity
86-004485
Pomoxis nigromaculatus
Culture/Propagation
86-002584
Foods/Feeding
86-000658
86-004485
86-004548
Hybridization
86-002584
Turbidity
86-004485
Popondetta funcata
Distribution/Geographical
86-001713
Porichthys notatus
Caudal Neurosecretory System
86-003992
Communication
86-002646
Sound Production
86-002646
Spawning
86-002646
Poroderma africanum
Endocrinology
86-002493
Hormones
86-002493
Reproduction
86-002493
Potamotrygonidae
Taxonomy
86-000834
Premnas
Symbiosis
86-001554
Priacanthus
Life History/General
86-000541
Mortality Rates
86-000541
Parasites/Diseases
86-000541
Pleistophora priacanthicola
86-000541
Protozoan Diseases
86-000541
Yield
86-000541
Priacanthus macracanthus
Life History/General
86-000515
Prionace glauca
Distribution/Factors of
86-000646
Distribution/Geographical
86-002691
Distribution/Vertical
86-000646
Enzymes
86-002381
Length-Weight Relationships
86-002691
Life History/General
86-002691
Prionotus carolinus
Identification/Eggs
86-002899
Prionotus evolans
Identification/Eggs
86-002899

...CONTINUED...

Prionotus evolans
Life History/General
86-002695
Management/Research--Marine
86-002695
Prionurus punctatus
Balantidium prionurium
86-000886
Parasites/Diseases
86-000886
Protozoan Diseases
86-000886
Pristidae
Aquariums
86-002173
Culture/Propagation
86-002173
Pristipomoides filamentosus
Electrophoresis
86-000463
Fecundity
86-004409
Maturation
86-004409
Spawning
86-004409
Variation Studies
86-000463
Pristobrycon striolatus
Foods/Feeding
86-001675
Mouth Parts
86-001675
Pristolepis fasciatus
Foods/Feeding
86-004486
Prochilodus scrofa
Maturation
86-002752
Prosopium cylindraceum
Age/Growth
86-000747
Competition
86-000497
Habitat Selection
86-000497
Territorial Behavior
86-000497
Trophic Relationships
86-000497
Prosopium gemmiferum
Foods/Feeding
86-004549
Proterorhinus marmoratus
Karyotypes
86-004142
Protopterus aethiopicus
Hypoxia
86-003872
Metabolic Rates
86-003872
Prototroctes marena
Distribution/Geographical
86-004667
Pseudocaranx dentex
Foods/Feeding
86-004592
Pseudochaenichthys georgianus
Foods/Feeding
86-004537
Pseudocrenilabrus multicolor
Brooding Behavior
86-004422
Pseudojuloides elongatus
New Species
86-004790
Pseudolabrus gymnogenis
Sex Reversal
86-003972
Pseudomancopsetta
New Genus
86-000818
Pseudomancopsetta andriashevi
New Species
86-000818
Pseudomugil
Fish Lists/Keys
86-004845
Pseudomugil gertrudae
Aquariums
86-000105
Culture/Propagation
86-000105
Pseudomugil helodes
New Species
86-004845
86-004846
Pseudomugil majusculus
New Species
86-004845
86-004846
Pseudomugil signifer
Foods/Feeding
86-000656
Predator/Prey Relationships
86-000656
Pseudophycis bacchus
Otoconia
86-003709
Pseudophycis bachus
Bacterial Diseases
86-000874
Parasites/Diseases
86-000874
Ulcer Disease
86-000874
Pseudopleuronectes americanus
Age/Growth
86-000746
Blood Chemistry
86-003903
Cadmium
86-001021
Culture/Propagation
86-000076
Digestive System
86-002323
86-002396
86-002467
86-002499
Excretory System
86-002552
Feeding Experiments
86-000076
Feeds
86-000076
Foods/Feeding
86-004557
Glugea stephani
86-002975
Heavy Metals
86-001021
86-001869
86-003093
Invertebrate Forage
86-000076
Mercury
86-003093
Nutrition
86-000076
Osmoregulation
86-002499

...CONTINUED...
Pseudopleuronectes americanus
Osmoregulation
86-003829
Parasites/Diseases
86-000927
86-002975
86-005148
pH Regulation
86-002323
Protozoan Diseases
86-002975
Taurine
86-002429
Trematodes
86-000927
Tumors
86-005148
Zinc
86-001021
86-001869
Pseudopleuronectes platessa
Parasites/Diseases
86-001850
Trematodes
86-001850
Pterolebias wischmanni
Aquariums
86-001328
Culture/Propagation
86-001328
Pterolebias zonatus
Aquariums
86-000106
Culture/Propagation
86-000106
Ptychocheilus grandis
Habitat Selection
86-004196
Temperature
86-004196
Ptychocheilus lucius
Culture/Propagation
86-002079
Induced Maturation
86-002079
Oil Shale Effluents
86-001037
Orientation/Homing
86-004435
Spawning
86-004402
86-004436
Spawning Migration
86-004435
Ptychocheilus oregonensis
Foods/Feeding
86-004534
Pungitius pungitius
Aggressive Behavior
86-002641
Competition
86-002641
Foods/Feeding
86-002641
Orientation/Homing
86-004161
Salinity
86-004161
Puntazzo puntazzo
Culture/Propagation
86-000053
86-003500
86-003527
Embryology
86-000053
...CONTINUED...
Puntazzo puntazzo
Feeders
86-003527
Foods/Feeding/Selectivity
86-004530
Fry Production
86-003500
Induced Maturation
86-000053
Trophic Relationships
86-004530
Puntioplites proctozysron
Foods/Feeding
86-004486
Puntius binotatus
Parasites/Diseases
86-001796
Puntius conchonius
Cadmium
86-001900
Heavy Metals
86-001900
Pygocentrus notatus
Foods/Feeding
86-001675
Mouth Parts
86-001675
Pygoplites diacanthus
Spawning
86-004399
Pylodictes olivaceus
Distribution/Seasonal
86-000636
Marking/Tagging
86-000636
Movements
86-000636
Telemetry
86-000636
Pylodictis olivaris
Catfish Traps
86-003264
Nets/Netting
86-003264
Raja
Parasites/Diseases
86-003050
Rajonchocotyle emarginata
86-003050
Trematodes
86-003050
Raja binoculata
Caudal Neurosecretory System
86-003992
Raja clavata
Age/Growth
86-004625
Raja eglanteria
Embryology
86-001353
Raja erinacea
Biomagnification
86-003089
Blood Chemistry
86-002352
Cardio-Vascular System
86-002336
Caudal Neurosecretory System
86-002414
Digestive System
86-002425
Eggs
86-002248
Enzymes
86-002439

...CONTINUED...
Raja erinacea
Excretory System
86-003846
Heavy Metals
86-003089
Induced Maturation
86-002440
Mercury
86-003089
Nervous System
86-000343
86-002336
86-002480
Osmoregulation
86-003829
Reproductive System
86-002440
Raja kneffti
New Species
86-004899
Raja ocellata
4-Chlorodiphenyl Ether
86-003094
Raja radiata
Capillaria schmidti
86-000906
Nematodes
86-000906
Parasites/Diseases
86-000906
Phenylxylylethanes
86-003146
Raja rhina
Myxosporea
86-002974
Parasites/Diseases
86-002974
Protozoan Diseases
86-002974
Sphaerospora araii
86-002974
Rajidae
Ampullary System
86-003779
Distribution/Geographical
86-001731
Rajiformes
Harvest
86-001256
86-005433
Management/Research--Marine
86-001256
Ranzania typus
Morphology
86-000134
Raphidascaris acus
Nematodes
86-005144
Parasites/Diseases
86-005144
Rasbora heteromorpha
Aquariums
86-001326
Culture/Propagation
86-001326
Rastrelliger faughni
Life History/General
86-000528
Rastrelliger kanagurta
Age/Growth
86-000745
Blood Chemistry
86-000446
Electrophoresis
86-000446

...CONTINUED...
Rastrelliger kanagurta
Variation Studies
86-000446
Reicheltia
New Genus
86-004832
86-004833
Reinhardtius hippoglossoides
Distribution/Vertical
86-004308
Population Studies
86-004308
Sampling
86-004308
Relictus solitarius
Life History/General
86-004294
Population Studies
86-004294
Remora remora
Distribution/Geographical
86-002857
Retropinna
Trophic Relationships
86-004358
Retropinna retropinna
Meristic Studies
86-000165
Rhacochilus vacca
Artificial Reefs
86-003192
Foods/Feeding
86-003192
Rhamdia sapo
Bacterial Diseases
86-004964
Blood Chemistry
86-003892
Culture/Propagation
86-001299
Hemorrhagic Septicemia
86-004964
Parasites/Diseases
86-004964
Pond Culture
86-001299
Rhamphexocoetus
New Genus
86-000814
Rhamphexocoetus volans
New Species
86-000814
Paleontology
86-000814
Rhinichthys atratulus
Foods/Feeding
86-000710
Habitat Selection
86-004245
Hybridization
86-002595
Life History/General
86-004245
Rhinichthys cataractae
Meristic Studies
86-001552
Parasites/Diseases
86-000917
Sanguinicola fontinalis
86-000917
Trematodes
86-000917
Variation Studies
86-001552
Rhinichthys osculus nevadensis
Status
86-000811

Rhinoptera bonasus
Foods/Feeding
86-000696
Multicalyx cristata
86-005149
Parasites/Diseases
86-005149
Trematodes
86-005149
Rhinoraja taranetzi
New Species
86-001768
Rhodeus ocellatus
Schooling Behavior
86-001558
Rhodeus ocellatus ocellatus
Age/Growth
86-000592
Biomass
86-000592
Light
86-000188
Population Studies
86-000592
Recruitment
86-000592
Reproduction
86-000188
Schooling Behavior
86-001564
Rhomboplites aurorubens
Abundance/Factors of
86-004761
Habitat Selection
86-004160
Management/Research--Marine
86-004761
Population Studies
86-004761
Rhombosolea tapirina
Early Development
86-003694
Embryology
86-003694
Rita rita
Enzymes
86-002520
Liver
86-002520
Rivulus hartii
Foods/Feeding
86-004590
Terrestrial Locomotion
86-004590
Rivulus marmoratus
Carcinogens
86-005265
Diethylnitrosamine
86-000932
Parasites/Diseases
86-005265
Tumors
86-005265
Rutilus
Vision
86-002272
Rutilus alburnoides
Karyotypes
86-002588
Taxonomy
86-002588
Rutilus rutilus
Abundance/Factors of
86-002888
Age/Growth
86-004656

...CONTINUED...

Rutilus rutilus
Ammonia
86-003152
ATP
86-003958
Auditory Senses
86-000158
Biomagnification
86-005159
Cadmium
86-005159
Competition
86-000705
86-002888
Cyanide
86-003152
Digestive System
86-002449
Enzymes
86-002449
86-003958
Fecundity
86-004413
Foods/Feeding
86-000705
Foods/Feeding/Selectivity
86-002806
86-004516
Heavy Metals
86-005159
Hybridization
86-004094
86-004120
Meristic Studies
86-001863
Musculature
86-003958
Nervous System
86-000305
Nitrite
86-003152
Phenols
86-003152
Predator/Prey Relationships
86-004493
Pulp Mill Effluents
86-001914
Stress
86-001518
Temperature
86-001518
Thermal Pollution
86-001863
Vision
86-004173
Salminus maxillosus
Fecundity
86-003922
Reproduction
86-003922
Salmo
Abundance/Factors of
86-004747
Biomass
86-004747
Chlorinated Hydrocarbons
86-005188
Chlorothalonil
86-001892
Population Studies
86-004747
Salmo apache
Electrophoresis
86-004126
Hybridization
86-004126

...CONTINUED...
Salmo apache
Management/Research--General
86-005360
Salmo clarki
Blood Chemistry
86-004046
Clearcutting
86-005378
86-005401
Competition
86-001556
Distribution/Factors of
86-005585
DNA
86-000468
Electrophoresis
86-004126
86-004129
Flow Regimes
86-002642
Forestry Practices
86-005378
86-005401
86-005421
Habitat Selection
86-000512
86-002642
86-004203
86-005585
Hybridization
86-004126
86-004129
Management/Research--River and Streams
86-005378
Population Studies
86-000832
86-005585
Salinity
86-001364
Taxonomy
86-000832
Urban Development
86-005411
Salmo clarki bouvieri
Catch and Release
86-005606
Hooking Mortality
86-005606
Management/Research--Rivers and Streams
86-005606
Salmo clarki clarki
Forestry Practices
86-005396
Salmo clarki henshawi
Foods/Feeding/Selectivity
86-004556
Management/Research--General
86-005344
Status
86-005344
Trophic Relationships
86-000669
86-004556
Salmo clarki lewisi
Zoogeography
86-004682
Salmo clarki pleuriticus
Habitat Selection
86-004370
Population Studies
86-004370
Production
86-004370
Salmo clarki stomias
Habitat Selection
86-004370
Population Studies
86-004370
Production
86-004370
Salmo clarki utah
Status
86-004339
Salmo clarki virginalis
Management/Research--General
86-005360
Salmo gairdneri
Abundance/Factors of
86-000807
86-002883
Abundance/Seasonal
86-000637
Acanthocephala
86-005084
Acidification
86-005238
86-005261
Acoustico-Lateralis System
86-001481
Acrylamide
86-003117
Aeromonas
86-004992
Aeromonas salmonicida
86-000867
86-004955
86-004977
86-004984
Age/Growth
86-000731
86-001709
86-002605
86-004631
86-005270
Age/Length Composition
86-000586
Aggressive Behavior
86-000470
Aldrin
86-003066
Alkalinity
86-000407
Alkanes
86-001889
Aluminum
86-001912
86-001915
86-005287
86-005328
Amino Acids
86-000429
86-002157
Anesthetics
86-005333
Anoxia
86-000238
Antibodies
86-004969
Aroclor
86-001883
Aromatic Hydrocarbons
86-003134
Arsenic
86-005315
Ascorbic Acid
86-001005
ATP
86-003989

...CONTINUED...
Salmo gairdneri
Bacterial Diseases
86-000863
86-000867
86-000870
86-000872
86-001799
86-002942
86-002944
86-002954
86-002968
86-004951
86-004952
86-004953
86-004954
86-004955
86-004956
86-004969
86-004977
86-004978
86-004990
86-004992
86-004998
86-005014
Bacterial Gill Disease
86-000870
86-005014
Bacterial Kidney Disease
86-000863
86-004952
86-004954
Bayer 73
86-001043
Bioassay Techniques
86-005270
Biochemical Composition
86-000398
86-000415
86-002159
86-002411
86-002431
86-002531
86-003923
Bioenergetics
86-000415
86-002653
86-002801
86-004062
Biomagnification
86-000942
86-000958
86-001029
86-001920
86-003066
86-005159
86-005326
Biomass
86-000586
Blood Chemistry
86-000298
86-000345
86-000377
86-000407
86-000423
86-001298
86-001399
86-001434
86-001509
86-002310
86-002407
86-002496
86-002555
86-003587
86-003917
86-003924

...CONTINUED...
Salmo gairdneri
Blood Chemistry
86-003932
Brackishwater Culture
86-003403
Brood Stock
86-003406
Cadmium
86-001029
86-001032
86-001038
86-001039
86-001890
86-001918
86-003100
86-003145
86-005159
86-005235
86-005247
86-005277
86-005285
86-005315
Cage Culture
86-003394
Calcium
86-000353
86-001399
86-002475
86-002558
86-003912
86-005328
Carbaryl
86-005194
Cardio-Vascular System
86-002481
Catecholamines
86-001482
86-002310
86-002496
Cestodes
86-003049
Chloride Cells
86-000252
Chlorinated Benzenes
86-001032
Chlorinated Dibenzo-p-Dioxins
86-001913
Chlorinated Dibenzofurans
86-001913
Chlorine
86-001866
Chlorothalonil
86-000991
86-001893
86-001894
Chromium
86-005315
Chromosome Studies
86-002587
Clearcutting
86-005378
86-005401
Cold Shock
86-000964
Collagen
86-004027
Coloration
86-001388
Columnaris Disease
86-002942
Commercial Fishing
86-003327
Competition
86-000487
86-001571

...CONTINUED...
Salmo gairdneri
Competition
86-002653
86-002799
Copper
86-001004
86-001005
86-001006
86-001017
86-001918
86-003145
86-005247
86-005283
86-005315
Cortisol
86-002303
86-002311
Cryptobia salmositica
86-005046
Culture/Propagation
86-000062
86-000068
86-000071
86-000073
86-000084
86-000415
86-001285
86-001298
86-001319
86-002026
86-002047
86-002048
86-002053
86-002055
86-002059
86-002061
86-002063
86-002064
86-002101
86-002141
86-002147
86-002157
86-003394
86-003403
86-003406
86-003526
86-003529
86-003531
86-003546
86-003567
86-003571
86-003577
86-003587
Currents
86-000802
86-002801
Cyanide
86-000999
86-005306
Cypermethrin
86-005252
Cytochalasin B
86-000205
Cytophaga columnaris
86-002942
Dams
86-003267
Dewatering
86-004746
Dieldrin
86-001032
86-001920
86-003066
Diets
86-000062

...CONTINUED...
Salmo gairdneri
Diets
86-000073
86-001319
86-002141
86-002147
86-003531
86-003546
86-003567
86-003571
86-003577
Digestive System
86-000312
86-000358
86-001379
86-002454
86-002482
Dioxin
86-001911
86-003114
Diplostomum
86-003044
Diplostomum spathaceum
86-005146
86-005147
Distribution/Geographical
86-002904
DMF
86-005303
DNA
86-000468
86-002543
Dominance
86-002653
Early Development
86-000149
86-003734
Egg Quality
86-003577
Eggs
86-002411
86-002431
86-002510
86-002531
Egtved Virus
86-002996
Electrofishing
86-001183
86-003894
Electrophoresis
86-000439
86-002583
86-002590
86-004126
Electrophysiology
86-002492
Electroshock
86-000417
86-003894
Endocrinology
86-000209
86-000307
86-000374
86-001298
86-002298
86-002311
86-002393
86-002452
86-002453
86-002562
86-003821
86-003901
86-003909
86-004031
86-004037

...CONTINUED...
Salmo gairdneri
Endrin
86-000984
Enteric Redmouth Disease
86-001799
86-004951
86-004998
Enzymes
86-000071
86-000241
86-000246
86-000312
86-000358
86-000422
86-000424
86-000992
86-002359
86-002418
86-002454
86-002482
86-002583
86-002590
86-003971
86-004008
86-004009
Epitheliocystis
86-003038
Eulan WA New
86-003124
Excretory System
86-000128
86-000347
86-002232
86-002337
Exercise
86-001417
86-001497
86-002310
86-002470
86-002496
Fecundity
86-003577
Feeding Experiments
86-000062
86-000073
86-000415
86-002141
86-002147
86-002157
86-003526
86-003531
86-003546
86-003567
86-003571
86-003577
86-003587
Feeds
86-000062
86-000068
86-000071
86-000084
86-002147
86-003526
86-003529
86-003546
86-003567
Fenvalerate
86-003092
Fish Hatchery Effluents
86-001285
Fish Kills
86-001859
Fish Passage
86-001196
86-003267

...CONTINUED...
Salmo gairdneri
Fish Passage
86-003343
Fish Stocks
86-000163
86-002718
Fishways
86-003343
Flow Regimes
86-002642
Food Digestibility
86-000233
Foods/Feeding
86-000657
86-002801
86-004582
Forestry Practices
86-003189
86-005378
86-005401
Fungicides
86-000991
Furunculosis
86-000867
86-004955
86-004984
Gas Bubble Disease
86-005108
Gas Supersaturation
86-005108
Gene Polymorphism
86-001543
Gene Transfer
86-001528
Genetic Markers
86-002593
Genetic Strains
86-002059
86-002590
Gill Diseases
86-005014
86-005094
Gill Parasites
86-003045
Groundwater
86-000807
Growth
86-003923
Growth Hormone
86-003821
Gyrodactylus masu
86-005129
Habitat Selection
86-001561
86-002642
86-002801
86-003189
86-004203
Hatching Success
86-000802
Heated Water
86-002026
86-002048
Heavy Metals
86-001004
86-001005
86-001006
86-001017
86-001024
86-001029
86-001032
86-001038
86-001039
86-001859
86-001878

...CONTINUED...
Salmo gairdneri
Heavy Metals
86-001890
86-001893
86-001912
86-001915
86-001918
86-001919
86-003100
86-003145
86-005159
86-005235
86-005247
86-005277
86-005283
86-005285
86-005287
86-005295
86-005301
86-005306
86-005315
86-005326
Hepatocellular Ceroidosis
86-005107
Herbicides
86-005290
Hooking Mortality
86-001169
Hormones
86-000307
86-002298
86-003989
Hybridization
86-004126
Hydrocarbons
86-001888
Hydrostatic Pressure
86-002299
Hydrothol
86-005290
Hypoxia
86-001509
86-002356
86-003872
86-005046
IHN
86-005064
Immune Response
86-000265
86-000420
86-002968
86-002996
86-004977
86-005146
Immunization
86-001799
86-002944
86-004984
86-005064
Induced Maturation
86-002061
Insecticides
86-000984
86-001032
86-001920
86-003066
86-003092
86-005194
IPN
86-002987
86-002991
86-002994
Jurisdiction
86-003318
Karyotypes
86-002602

...CONTINUED...
Salmo gairdneri
Karyotypes
86-004149
Kidney
86-002232
Lactobacillus
86-000872
Lamprey Parasitism
86-000919
Lead
86-001017
86-001890
86-005315
Life History/General
86-002679
86-004271
Light
86-000387
86-002061
Ligula intestinalis
86-003049
Lipid Composition
86-000259
86-000266
86-000309
86-000340
Lipid Metabolism
86-001513
86-001888
86-002159
Liver
86-001500
86-002473
86-003702
86-003721
86-003913
Magnesium
86-000347
Management/Research--General
86-003169
86-003171
86-003175
86-003327
86-003343
Management/Research--Marine
86-003318
Management/Research--Reservoirs
86-001175
Management/Research--Rivers and Streams
86-005378
86-005605
Maneb
86-001032
Marking/Tagging
86-000649
86-003226
Maturation
86-000387
86-000415
Mercury
86-001017
86-005315
86-005326
Metabolic Rates
86-000428
86-001517
86-003872
86-004062
Methanol
86-005303
Mortality Factors
86-004746
Movements
86-000637

...CONTINUED...
Salmo gairdneri
Movements
86-000649
86-002059
86-002762
86-002763
86-002904
MS-222
86-005333
Musculature
86-000149
86-000417
86-001562
MYC Genes
86-002622
Naphthenic Hydrocarbons
86-001888
Nervous System
86-002492
Nets/Netting
86-005525
Nodular Gill Disease
86-000870
86-005094
Nutrition
86-000073
86-000084
86-000926
86-001319
86-002152
86-002157
86-002159
86-003531
86-003577
Nutritional Diseases
86-000926
Oil
86-001008
86-005266
86-005302
Olfaction
86-002278
86-004167
Organochlorines
86-000958
86-001920
Osmoregulation
86-000252
86-000325
86-000353
86-001416
86-001426
86-001434
86-001443
86-001450
86-001514
86-001523
86-002407
86-002468
86-003909
Otoliths
86-000163
86-002019
86-002475
Parasites/Diseases
86-000863
86-000867
86-000870
86-000872
86-000919
86-000926
86-001799
86-002942
86-002944
86-002954

...CONTINUED...
Salmo gairdneri
Parasites/Diseases
86-002968
86-002979
86-002987
86-002991
86-002994
86-002996
86-003018
86-003038
86-003044
86-003045
86-003049
86-004951
86-004952
86-004953
86-004954
86-004955
86-004956
86-004969
86-004977
86-004978
86-004984
86-004990
86-004992
86-004998
86-005014
86-005027
86-005036
86-005046
86-005064
86-005084
86-005094
86-005107
86-005108
86-005129
86-005146
86-005147
Parasitic Copepods
86-003045
Parathion
86-001032
Parr-Smolt Transformation
86-001523
Pentachlorophenate
86-003150
Pentachlorophenol
86-001032
86-005294
Pesticides
86-001043
pH
86-000977
86-001912
86-002311
86-005238
86-005247
86-005261
86-005327
86-005328
Phenols
86-001012
Phosphate Esters
86-001884
Pigmenters
86-002063
86-002064
86-002101
Pigments
86-001388
Pineal Body
86-003990
Piscicides
86-003104
Plesiomonas shigelloides
86-004956

...CONTINUED...
Salmo gairdneri
Ploidy Levels
86-004115
Pollution
86-004008
Polychlorinated Biphenyls
86-001008
Polyculture
86-002026
86-003394
Pomphorhynchus laevis
86-005084
Population Studies
86-000586
86-001608
86-002883
86-004319
Potassium
86-001426
Power Plant Effluents
86-002026
86-002048
Power Plants
86-000964
Predator/Prey Relationships
86-000919
86-002799
86-004602
Pressure Effects
86-002299
Production
86-000586
Proliferative Kidney Disease
86-002979
86-003018
86-005027
86-005036
Prostaglandins
86-001407
Protein Metabolism
86-003897
Protein Synthesis
86-001465
86-001866
86-002159
86-003531
86-003923
Protozoan Diseases
86-002979
86-005027
86-005036
86-005046
Pulp Mill Effluents
86-001012
86-005320
Put-Grow-and-Take
86-001175
Pyrethroids
86-003092
Quinoline
86-001876
rDNA
86-001543
Rearing Density
86-001298
Renibacterium salmonianarum
86-000863
Renibacterium salmoninarum
86-004952
86-004954
Renin-Angrotensis System
86-001485
Reproduction
86-002332
86-002452

...CONTINUED...
Salmo gairdneri
Reproduction
86-002453
86-002562
Reproductive System
86-000374
86-003901
Research Test Fish
86-001035
86-002570
Respiration
86-000354
86-003917
Rotenone
86-003104
Salinity
86-000325
86-000731
86-001379
86-001443
86-001450
86-002418
86-004008
Salmincola californiensis
86-003045
Sex Determination
86-002055
Sex Reversal
86-002055
Silver
86-001017
Social Behavior
86-002592
Sodium
86-000252
Solvents
86-005303
Spawning
86-001636
86-002452
86-002453
Spawning Cycle Regulation
86-002053
Spawning Migration
86-000620
Spawning Substrates
86-000807
Specific Dynamic Action
86-001319
Sperm
86-003406
Starvation
86-000186
86-002418
86-004008
86-004037
Steroids
86-004031
Stocking/Introductions
86-001169
86-001175
Stress
86-000992
86-001399
86-001489
86-002311
86-002481
86-003267
Sunburn
86-000926
Surfactants
86-005300
Survival
86-000807
86-001169

...CONTINUED...
Salmo gairdneri
Survival
86-001175
Suspended Solids
86-003064
Swimming Performance
86-000428
86-001417
86-001562
Synthetic Pyrethrins
86-005252
Taxonomy
86-002904
TCDD
86-000942
Telemetry
86-000649
86-003226
Temperature
86-000246
86-000259
86-000266
86-000340
86-000420
86-000424
86-001465
86-001513
86-002053
86-002061
86-002316
86-002337
86-002445
86-002555
86-002801
86-003913
86-003971
TFM
86-001043
Thermal Shock
86-002316
86-002445
Thiocyanate
86-000999
Trematodes
86-003044
86-005129
86-005146
86-005147
Variation Studies
86-000439
Vibrio anguillarum
86-002968
86-004969
86-004978
86-004990
Vibriosis
86-004990
Viral Diseases
86-002987
86-002991
86-002994
86-002996
86-005064
Vitamins
86-002152
86-003912
Vitellogenin
86-002332
Wild Trout Management
86-005605
Xenobiotics
86-001876
86-005227
Yersinia ruckeri
86-001799

...CONTINUED...
Salmo gairdneri
Yersinia ruckeri
86-002944
86-002954
86-004951
86-004998
Zinc
86-001017
86-001024
86-001029
86-001859
86-001878
86-001893
86-001918
86-003145
86-005247
86-005295
Salmo gilae
Electrophoresis
86-004126
Hybridization
86-004126
Management/Research--General
86-005360
Salmo mykiss
Blood Chemistry
86-000298
Distribution/Geographical
86-002904
Karyotypes
86-002596
Meristic Studies
86-000124
Movements
86-002904
Taxonomy
86-002904
Salmo nelsoni
Life History/General
86-004301
Salmo penshinensis
Karyotypes
86-002596
Salmo salar
Abnormalities
86-002604
Abundance/Factors of
86-002881
86-002882
86-003186
Acid Precipitation
86-001459
86-005218
Acidification
86-005261
Aeromonas salmonicida
86-000867
Age/Growth
86-002824
86-002828
86-002882
86-004520
86-004637
Age/Length Composition
86-001593
Aggressive Behavior
86-004180
86-004191
Aluminum
86-005317
Amino Acids
86-000329
86-000429
Appetite Stimulants
86-003404

...CONTINUED...
Salmo salar
Bacterial Diseases
86-000861
86-000867
86-002955
86-004952
86-004954
86-004967
Bacterial Kidney Disease
86-004952
86-004954
Biochemical Composition
86-002485
Biomagnification
86-000971
86-005161
Bird Predation
86-001746
Blood Chemistry
86-000451
86-001459
Cadmium
86-004001
Cage Culture
86-003394
Cardio-Vascular System
86-003879
Chlorinated Hydrocarbons
86-000971
Chlorinated Phenols
86-005161
Chlorophenols
86-000971
Competition
86-000487
86-002824
86-004165
86-004194
Culture/Propagation
86-000013
86-000452
86-001322
86-003394
86-003404
86-003529
86-003551
86-004180
86-004191
Cytochalasin B
86-000205
Diets
86-001322
Distribution/Geographical
86-004729
DNA
86-001527
Eggs
86-004001
Embryology
86-000352
Endocrinology
86-001460
86-003889
Enteric Redmouth Disease
86-002955
Enzymes
86-000410
86-001495
Fecundity
86-001593
Feeding Experiments
86-001322
Feeds
86-003529
Flow Regimes
86-001949

...CONTINUED...
Salmo salar
Flow Regimes
86-002882
Foods/Feeding
86-003551
86-004520
Forestry Practices
86-003186
Fry Stocking
86-001173
86-002881
Furunculosis
86-000867
Gyrodactylus salaris
86-005110
Habitat Selection
86-004194
Heavy Metals
86-005317
Hepatic Cysts
86-001827
Hitra Disease
86-004967
IHN
86-002995
Immunization
86-000861
Incubation
86-000013
Jellyfish Toxin
86-001879
Karyotypes
86-000469
Landlocked Populations
86-001606
Life History/General
86-005364
Light
86-000326
Lipid Composition
86-002566
Management/Research--General
86-003170
86-005361
86-005364
86-005367
Management/Research--Rivers and Streams
86-002824
86-003292
86-005591
86-005609
Marking/Tagging
86-001161
Maturation
86-000391
86-000410
86-002290
86-002304
86-002476
86-002477
Movements
86-002708
86-004344
86-004454
Nets/Netting
86-005516
Olfaction
86-000395
86-000476
Organochlorines
86-000971
Orientation/Homing
86-000476
Osmoregulation
86-001466

...CONTINUED...
Salmo salar
Osmoregulation
86-001494
86-002456
Pancreas Disease
86-001835
Parasites/Diseases
86-000861
86-000867
86-001827
86-001835
86-002604
86-002955
86-002995
86-004952
86-004954
86-004967
86-005110
Parr-Smolt Transformation
86-000326
86-000395
86-000998
86-001460
86-001466
86-002456
86-003841
86-003889
pH
86-000998
86-001459
86-003139
86-005261
86-005313
Ploidy Levels
86-004115
Polyculture
86-003394
Polymorphism
86-000469
Polyploidy
86-000452
Population Studies
86-001621
86-002708
86-002716
86-003363
86-004314
86-004344
86-004356
86-005546
Precocious Males
86-002476
Precocious Maturation
86-002477
Production
86-004356
Pumped Storage
86-005408
Recruitment
86-004314
Renibacterium salmoninarum
86-004952
86-004954
Reproduction
86-000613
86-002444
86-002566
Reservoir Release Effects
86-001949
Restoration of Anadromous Runs
86-003292
86-005361
86-005609
Sex Ratios
86-001593

...CONTINUED...
Salmo salar
Spawning
86-000613
86-003363
Sperm
86-000357
Spinal Deformities
86-002604
Steroids
86-000391
Stocking/Introductions
86-001173
86-002824
86-002881
Substrate Composition
86-002882
Swimming Performance
86-001466
Telemetry
86-001161
Temperature
86-000352
86-002376
86-002444
86-002882
86-004637
Thermal Shock
86-002376
Transferrin
86-004150
Trematodes
86-005110
Triploid Fish
86-000451
Triploidy
86-000452
Tumors
86-001827
Vibrio
86-004967
Vibriosis
86-004967
Viral Diseases
86-002995
Vitellogenin
86-002444
Yersinia ruckeri
86-000861
86-002955
Yield
86-004344
Salmo trutta
Abundance/Factors of
86-003186
86-004768
Abundance/Seasonal
86-000637
Acidification
86-005261
Aeromonas salmonicida
86-000869
86-004955
Age/Growth
86-000335
86-000569
86-001673
86-002692
86-002824
86-004021
86-004626
Aluminum
86-001909
86-001910
Appetite Stimulants
86-003404

...CONTINUED...
Salmo trutta
Bacterial Diseases
86-000869
86-002942
86-004955
Biochemical Composition
86-004021
Bioenergetics
86-000335
Biomass
86-000569
Blood Chemistry
86-001492
86-004003
Calcium
86-004021
Columnaris Disease
86-002942
Competition
86-001673
86-002824
86-004178
Cortisol
86-001492
Creel Census
86-001242
Culture/Propagation
86-002045
86-003404
86-003405
Cytophaga columnaris
86-002942
Dams
86-005496
Distribution/Geographical
86-004668
Egg Survival
86-004768
Eggs
86-002510
Electrofishing
86-003894
Electrophoresis
86-002583
86-002589
Electroshock
86-003894
Endocrinology
86-000210
86-000306
86-000360
Enzymes
86-002583
Exploitation Rates
86-001242
Fecundity
86-001629
86-002692
Fennosan F50
86-001034
Flow Regimes
86-000554
86-001949
86-002642
86-005496
Foods/Feeding
86-000335
86-000657
86-001673
86-001692
86-004479
86-004577
86-004626
Foods/Feeding/Selectivity
86-000689

...CONTINUED...
Salmo trutta
Foods/Feeding/Selectivity
86-004483
Forestry Practices
86-003186
Furunculosis
86-000869
86-004955
Habitat Alterations
86-005496
Habitat Improvement/General
86-005388
Habitat Selection
86-002642
Harvest
86-004372
Heavy Metals
86-001909
86-001910
Hybridization
86-002045
Insecticides
86-005243
Life History/General
86-000554
86-002692
Management Research--Rivers and Streams
86-001242
Management/Research--General
86-005581
Management/Research--Rivers and Streams
86-002824
86-003193
86-003299
86-005388
86-005595
Marking/Tagging
86-000635
Maturation
86-001629
86-002692
Metabolic Rates
86-000335
Movements
86-000635
86-000637
Naled
86-005243
Organophosphates
86-005243
Parasites/Diseases
86-000869
86-002942
86-002990
86-004955
pH
86-001025
86-001909
86-001910
86-001923
86-004021
86-005261
Population Genetics
86-002589
Population Studies
86-000335
86-000569
86-003363
86-004342
86-004349
86-004362
86-004372
Power Plants
86-005496

...CONTINUED...
Salmo trutta
Predator/Prey Relationships
86-004183
86-004490
86-004577
Production
86-000335
86-000569
86-004362
86-004372
Pulp Mill Effluents
86-005325
Regulations
86-005444
Reproduction
86-000360
Reservoir Release Effects
86-001949
86-005496
Riparian Habitat
86-003193
Size Limits
86-005444
Slimecides
86-001034
Spawning
86-003363
86-004349
86-004406
Spawning Habitat Restoration
86-005595
Stocking/Introductions
86-002824
Telemetry
86-000635
Temperature
86-001923
Trout Stream Management
86-001242
86-003193
86-005388
Viral Diseases
86-002990
Viral Hemorrhagic Septicemia
86-002990
Vision
86-003978
Water Quality
86-003405
Salmo trutta fario
Management/Research--Rivers and Streams
86-004347
Population Studies
86-004347
Salmonidae
Abundance/Factors of
86-004765
86-004775
Acanthocephala
86-000852
Aeromonas salmonicida
86-002940
86-002960
86-004991
86-004999
86-005000
Age/Growth
86-000725
Bacterial Diseases
86-002940
86-002960
86-004947
86-004949
86-004958

...CONTINUED...
Salmonidae
Bacterial Diseases
86-004991
86-004996
86-004999
86-005000
86-005003
Bacterial Kidney Disease
86-004949
86-004996
Blood Chemistry
86-002528
86-002530
Cage Culture
86-002056
Catch and Release
86-001964
86-005442
86-005443
86-005447
86-005450
86-005454
Cortisol
86-002530
Culture/Propagation
86-000012
86-000060
86-000078
86-001284
86-001286
86-001335
86-002046
86-002056
86-002143
86-003556
86-004996
Dams
86-001947
86-001950
86-003270
Diets
86-003556
Distribution/Geographical
86-005485
Early Development
86-004858
Economic Values
86-005334
86-005440
Eggs
86-001363
Endocrinology
86-002556
Enteric Redmouth Disease
86-004958
86-005003
Feeding Experiments
86-000060
Feeds
86-000060
86-000078
Fish Grading
86-005532
Fish Hatchery Effluents
86-002056
86-003556
Fish Passage
86-003270
86-005532
Fishways
86-003270
Flow Regimes
86-004765
Foods/Feeding
86-000662

...CONTINUED...
Salmonidae
Foods/Feeding
86-000672
86-000676
86-000683
Forestry Practices
86-005379
Furunculosis
86-002960
86-004991
86-004999
86-005000
Gas Supersaturation
86-000184
Gene Organization
86-004103
General
86-005482
Growth Hormone
86-002556
Habitat Selection
86-004775
86-005608
Heterozygosity
86-004122
IHN
86-005051
Immune Response
86-002940
86-003911
Immunization
86-002940
86-004996
Life History/General
86-000537
Magnetic Fields
86-003887
Management/Research--
86-003351
Management/Research--General
86-001963
86-001964
86-003303
86-003320
86-005334
86-005336
86-005343
86-005345
86-005355
86-005362
86-005363
86-005468
Management/Research--Rivers and Streams
86-003303
86-004775
86-005594
86-005601
86-005604
86-005608
Metabolic Rates
86-001414
Mycobacterium chelonei
86-004947
Myxobolus insidiosus
86-005025
Myxosoma cerebralis
86-001818
Nutrition
86-002143
86-003556
86-004996
Parasites/Diseases
86-000852
86-001818

...CONTINUED...
Salmonidae
Parasites/Diseases
86-002931
86-002940
86-002960
86-004936
86-004947
86-004949
86-004958
86-004991
86-004996
86-004999
86-005000
86-005003
86-005025
86-005051
Physiology
86-000078
Pigments
86-003854
Population Studies
86-003303
86-004775
86-005608
Power Plants
86-001950
Protozoan Diseases
86-001818
86-005025
Put-and-Take
86-005468
86-005482
Recirculating Systems
86-001335
Regulations
86-001963
86-001964
86-005442
86-005443
86-005447
86-005450
86-005452
86-005454
Renibacterium salmoninarum
86-002940
86-004949
Selective Breeding
86-000012
Size Limits
86-005454
Stocking/Introductions
86-005468
86-005482
86-005485
Stress
86-002530
Taxonomy
86-004858
Temperature
86-004776
Triploid Fish
86-002586
Ulcer Disease
86-002960
Vibrio anguillarum
86-002940
Viral Diseases
86-005051
Whirling Disease
86-001818
Wild Trout Management
86-005334
86-005343
86-005345
86-005355

...CONTINUED...
Salmonidae
Wild Trout Management
86-005362
86-005440
86-005468
86-005482
86-005604
Yersinia ruckeri
86-002940
86-004958
86-005003
Salmoniformes
Early Development
86-004872
Taxonomy
86-004822
86-004872
Salvelinus
Abundance/Factors of
86-004747
Biomass
86-004747
Population Studies
86-004747
Salvelinus alpinus
Age/Growth
86-002822
Amino Acids
86-002659
Cage Culture
86-003409
Catecholamines
86-003874
Cestodes
86-003019
86-005078
86-005105
Chemoreception
86-001563
86-002658
Communication
86-002659
Culture/Propagation
86-003409
86-003581
DDT
86-001011
Diets
86-003581
Diphyllobothrium ditremum
86-005078
Dwarfism
86-001225
86-001683
Electrophoresis
86-002658
Endocrinology
86-003874
Eubothrium salvelini
86-003019
Feeding Experiments
86-003581
Foods/Feeding
86-001683
Insecticides
86-001011
IPN
86-002997
Life History/General
86-004210
Management/Research--Lakes
86-001225
Nutrition
86-003581
Olfaction
86-001553
...CONTINUED...
Salvelinus alpinus
Olfaction
86-002659
Orientation/Homing
86-001553
Parasites/Diseases
86-002997
86-003019
86-005078
86-005105
Pheromones
86-001553
Polychlorinated Biphenyls
86-001011
Population Studies
86-004210
Predator/Prey Relationships
86-004547
Triaenophorus nodulosus
86-005105
Variation Studies
86-001533
Viral Diseases
86-002997
Salvelinus confluentus
Sedimentation
86-005209
Salvelinus fontinalis
Abundance/Factors of
86-002880
86-003186
Acidification
86-005261
Aeromonas salmonicida
86-000867
86-004955
Aggressive Behavior
86-002641
Aminocarb
86-001026
Ammonium
86-001880
Bacterial Diseases
86-000867
86-004955
Biochemical Composition
86-003861
Blood Chemistry
86-003861
Cadmium
86-003106
Chlorinated Diphenyl Ethers
86-000989
Clearcutting
86-005400
Competition
86-001571
86-002641
86-004178
Cortisol
86-000218
Culture/Propagation
86-002045
86-002051
86-002058
Cyanide
86-000999
Distribution/Geographical
86-000753
Dredging
86-005400
Electrofishing
86-001183
Electrophysiology
86-000322

...CONTINUED...
Salvelinus fontinalis
Endocrinology
86-000199
Exercise
86-002051
Feeding Experiments
86-002051
Flow Regimes
86-002642
Food Conversion Efficiency
86-002051
Foods/Feeding
86-000710
86-002641
86-004479
Forestry Practices
86-003186
86-005400
Furunculosis
86-000867
86-004955
Gene Polymorphism
86-001543
Genetic Strains
86-005471
Gills
86-000130
Gradient
86-002880
Grazing
86-001092
86-005400
Growth
86-002051
Habitat Selection
86-002642
Heavy Metals
86-003106
Hormones
86-004052
Hybridization
86-002045
86-004090
86-005471
Insecticides
86-001026
86-005258
IPN
86-005058
Life History/General
86-000553
86-005581
Light
86-001568
Management/Research--Ponds
86-005471
Management/Research--Rivers and Streams
86-003193
86-003290
Maturation
86-000310
Parasites/Diseases
86-000867
86-000917
86-003021
86-004955
86-005058
pH
86-000130
86-001003
86-005202
86-005240
86-005261
86-005319

...CONTINUED...
Salvelinus fontinalis
Photoperiodism
86-001568
Pollution Avoidance
86-005202
Population Studies
86-000572
86-002725
rDNA
86-001543
Reproduction
86-000199
86-000310
86-000322
86-004052
Reproductive System
86-001464
Riparian Habitat
86-001092
86-003193
Sanguinicola fontinalis
86-000917
86-003021
Sedimentation
86-003290
Spawning
86-001635
Steroids
86-000310
Stocking/Introductions
86-005471
Teknar
86-005258
Thiocyanate
86-000999
Trematodes
86-000917
86-003021
Trout Stream Management
86-003193
Viral Diseases
86-005058
Vitellogenin
86-004052
Salvelinus leucomaenis
Foods/Feeding
86-002778
Foods/Feeding/Selectivity
86-004509
Life History/General
86-002701
Variation Studies
86-004128
Salvelinus malma
Clearcutting
86-005401
Distribution/Factors of
86-005585
Forestry Practices
86-003189
86-005387
86-005401
Habitat Selection
86-003189
86-004203
86-005585
Logging Residue
86-005387
Management/Research--Rivers and Streams
86-005387
Naphthalene
86-003158
Oil
86-003158

...CONTINUED...
Salvelinus malma
Population Studies
86-005585
Temperature
86-003158
Toluene
86-003158
Salvelinus malma miyabei
Spawning
86-001642
Salvelinus namaycush
Abundance/Factors of
86-001753
Age/Growth
86-004633
Ammonia
86-001287
86-003401
Biomagnification
86-003059
Cage Culture
86-003409
Chemoreception
86-000605
Creel Census
86-005435
Culture/Propagation
86-000017
86-001287
86-002060
86-003401
86-003409
86-003571
DDT
86-003059
Dieldrin
86-003059
Diets
86-003571
Drawdowns
86-001132
Dwarfism
86-001225
Egg Survival
86-001753
Eggs
86-002510
Feeding Experiments
86-003571
Fisherman Surveys
86-005435
Foods/Feeding
86-000657
86-004540
Gene Polymorphism
86-001543
Habitat Selection
86-001231
Harvest
86-005435
Insecticides
86-003059
Light
86-001568
Loading Levels
86-000017
Management/Research--Lakes
86-001168
86-001225
86-001231
86-003246
86-005435
86-005572
Marking/Tagging
86-005457

...CONTINUED...
Salvelinus namaycush
Mortality Rates
86-001753
Olfaction
86-000480
Photoperiodism
86-001568
Polychlorinated Biphenyls
86-003059
rDNA
86-001543
Rearing Density
86-002060
Recirculating Systems
86-001287
Spawning Behavior
86-000605
Stocking/Introductions
86-001168
86-003246
Stunting
86-004540
86-004633
Survival
86-003246
Temperature
86-002657
Temperature Selection
86-000498
86-002657
Water Level Fluctuations
86-001132
Water Quality
86-003401
Wire Tags
86-005457
Salvelinus pluvius
Electrophoresis
86-004109
Polymorphism
86-004109
Sarda chiliensis
Foods/Feeding
86-001660
Sardina melanosticta
Distribution/Geographical
86-000632
Foods/Feeding
86-004539
Movements
86-000632
86-000642
Population Studies
86-000642
Sardina pilchardus
Egg Size
86-002229
Lernaeenicus
86-005135
Lernaeenicus sprattae
86-001832
Parasites/Diseases
86-001832
Parasitic Copepods
86-001832
86-005135
Population Studies
86-000595
Sardina sagax melanosticta
Population Studies
86-000591
Sardinella aurita
Population Studies
86-000595
Sardinella longiceps
Blood Chemistry
86-000446

...CONTINUED...
Sardinella longiceps
Distribution/Geographical
86-000758
Electrophoresis
86-000446
Variation Studies
86-000446
Sardinella maderensis
Population Studies
86-000595
Sardinops melanosticta
Distribution/Vertical
86-001654
Lipid Composition
86-004051
Population Studies
86-002720
Schooling Behavior
86-001557
Sardinops sagax
Age/Growth
86-000713
Distribution/Factors of
86-004718
El Nino
86-000623
86-000625
86-000713
Nets/Netting
86-005504
Spawning
86-000623
86-000625
Trawls
86-005504
Sardinops sagax sagax
Age/Growth
86-001695
Sargocentron rubrum
Life History/General
86-000529
Sarocheilichthys variegatus
Eggs
86-002256
Pigments
86-002256
Sarotherodon
DNA
86-001537
Karyotypes
86-001537
Sarotherodon alcalicus grahami
Oxygen
86-004032
Respiration
86-004032
Sarotherodon aureus
Competition
86-004192
Fish Kills
86-000976
Winterkill
86-000976
Sarotherodon galilaeus
Identification
86-002227
Scales
86-002227
Sarotherodon karomo
Aquariums
86-002176
Culture/Propagation
86-002176
Sarotherodon melanotheron
Temperature
86-001574
...CONTINUED...
Sarotherodon melanotheron
Temperature Selection
86-001574
Sarotherodon mossambicus
DDT
86-001022
Diammonium Phosphate
86-001013
Endosulfan
86-001023
Fertilizers
86-001013
Imprinting
86-002668
Insecticides
86-001022
86-001023
Manure
86-003122
Organochlorines
86-001022
Salinity
86-001411
Temperature
86-001411
Sarotherodon niloticus
Acoustico-Lateralis System
86-000337
Bacterial Diseases
86-004959
Cage Culture
86-000027
Culture/Propagation
86-000027
Digestive System/Bacterial Flora
86-000396
Nervous System
86-000337
Parasites/Diseases
86-004959
Pseudomonas fluorescens
86-004959
Sarritor frenatus
Distribution/Geographical
86-004697
Saurida
Callitetrarhynchus gracilis
86-005075
Cestodes
86-005075
Parasites/Diseases
86-005075
Saurida tumbil
Age/Growth
86-000738
Saurida undosquamis
Acanthobothrium
86-005087
Cestodes
86-005087
Parasites/Diseases
86-005087
Scaphirhynchus albus
Distribution/Geographical
86-000519
Hybridization
86-000519
Life History/General
86-000519
Scaphirhynchus platorhynchus
Distribution/Geographical
86-000519
Hybridization
86-000519
Life History/General
86-000519

Scaridae
Reef Fish Communities
86-004550
Trophic Relationships
86-004550
Scarus
Musculature
86-000254
Respiration
86-000254
Schedophilus medusophagus
Early Development
86-003730
Schindlerioidei
Early Development
86-004909
Taxonomy
86-004909
Schizothorax dulongensis
New Species
86-001784
Schizothorax elongatus
New Species
86-001784
Schizothorax heterochilus
New Species
86-002903
Schizothorax oligolepis
New Species
86-001784
Schizothorax oligolepis malacathus
New Subspecies
86-001784
Sciaenidae
Life History/General
86-004243
Spawning
86-000610
Sciaenops ocellatus
Cage Culture
86-002110
Condition Factors
86-001625
Culture/Propagation
86-002080
86-002110
86-002114
86-002135
86-002168
86-002170
Diets
86-002135
Feeding Experiments
86-002135
Handling Mortality
86-002168
86-002170
Heated Water
86-002110
Hybridization
86-002080
Induced Maturation
86-002114
Life History/General
86-000555
Management/Research--Marine
86-003238
Nutrition
86-002135
Oil
86-001901
86-005305
Pond Culture
86-002080
86-002114

...CONTINUED...

Sciaenops ocellatus
Population Studies
86-001625
Power Plant Effluents
86-002110
Stocking/Introductions
86-003238
Stress
86-002168
86-002170
Supplemental Stocking
86-003238
Scleropages formosus
Hypothalamic-Hypophyseal System
86-000269
Scleropages jardini
Foods/Feeding
86-004599
Scoliodon sonakowah
Coloration
86-000145
Olfaction
86-000145
Scomber japonicus
Biochemical Composition
86-000434
86-004022
Collagen
86-004027
Distribution/Seasonal
86-004444
Enzymes
86-001499
86-004061
Foods/Feeding
86-004539
86-004600
Musculature
86-000434
86-001499
Population Studies
86-001616
Production
86-001616
Swimming Performance
86-001572
Temperature
86-001572
Scomber scombrus
Population Studies
86-002747
Spawning
86-002747
Scomberomorus
Distribution/Seasonal
86-000640
Life History/General
86-000521
Morphology
86-000521
Taxonomy
86-000521
Scomberomorus brasiliensis
Life History/General
86-005683
Management/Research--Marine
86-005683
Scomberomorus cavalla
Life History/General
86-005671
86-005683
Management/Research--Marine
86-005671
86-005683
Population Studies
86-005671

Scombridae
Body Temperature
86-000240
Jurisdiction
86-002012
Lactate Dehydrogenase
86-000240
Management/Research--Marine
86-002012
Movements
86-004466
Musculature
86-000240
Schooling Behavior
86-004466
Scombroidei
Early Development
86-004806
Taxonomy
86-004806
Scopelarchidae
Early Development
86-004853
Taxonomy
86-004853
Scophthalmus maximus
Acoustico-Lateralis System
86-003762
Culture/Propagation
86-002108
86-002113
86-002116
86-003533
86-003535
86-003575
Diets
86-003533
86-003535
86-003575
Early Development
86-003762
Egg Production
86-002108
Feeding Experiments
86-002132
86-003533
86-003535
86-003575
Feeds
86-003535
Fish Kills
86-002113
Lipid Metabolism
86-002132
Mortality Factors
86-002113
Nutrition
86-002132
86-003533
Tank Culture
86-002108
Vitamins
86-003575
Scophthalmus rhombus
Foods/Feeding
86-004618
Scorpaena plumieri
Distribution/Geographical
86-004738
Scorpaenidae
DNA
86-000438
Genomes
86-000438
Scorpaeniformes
Early Development
86-003808

...CONTINUED...
Scorpaeniformes
Taxonomy
86-004907
Scyliorhinus canicula
Ampullary System
86-001490
Bioenergetics
86-002292
Blood
86-002270
Blood Chemistry
86-002408
Cardio-Vascular System
86-000194
86-000195
Digestive System
86-003723
Gills
86-002258
Heavy Metals
86-001925
86-005245
Lipid Composition
86-000385
Musculature
86-002292
86-002474
Nervous System
86-000125
86-000194
86-000195
86-002285
86-002474
Olfaction
86-003802
Osmoregulation
86-000385
Rectal Gland
86-000385
Respiration
86-000194
Respiratory System
86-002258
86-002538
Stress
86-001925
Zinc
86-001925
86-005245
Scyliorhinus meadi
Life History/General
86-001592
Scyliorhinus stellaris
Gills
86-002243
86-002733
Scyliorhinus torazame
Caudal Neurosecretory System
86-000348
Sebastes
Distribution/Vertical
86-004468
Evolution
86-004147
Foods/Feeding
86-001687
Genetic Divergence
86-004147
Habitat Selection
86-004468
Lipid Metabolism
86-000258
Meristic Studies
86-003693
Reproductive System
86-000258

...CONTINUED...
Sebastes
Sexual Dimorphism
86-001360
Taxonomy
86-001781
86-004147
Variation Studies
86-003693
Sebastes auriculatus
Early Development
86-003796
Identification/Larvae
86-003796
Sebastes aurora
Early Development
86-003759
Identification/Larvae
86-003759
Sebastes caurinus
Early Development
86-003796
Identification/Larvae
86-003796
Sebastes fasciatus
Early Development
86-000169
86-001382
Fish Stocks
86-000459
Identification
86-004856
Identification/Larvae
86-001382
Meristic Studies
86-000459
Trophic Relationships
86-004538
Sebastes flavidus
Carotenoids
86-001449
Population Studies
86-004312
Sebastes maliger
Artificial Reefs
86-003192
Foods/Feeding
86-003192
Sebastes mentella
Early Development
86-000169
86-001382
Fish Stocks
86-000459
Foods/Feeding
86-004261
Identification
86-004856
Identification/Larvae
86-001382
Life History/General
86-004261
Meristic Studies
86-000459
Parasites/Diseases
86-004261
Spawning
86-004261
Trophic Relationships
86-004538
Sebastes mystinus
Nematodes
86-005123
Parasites/Diseases
86-005123
86-005124

...CONTINUED...
Sebastes mystinus
Tuberculosis
86-005124
Sebastes oculatus
Parasites/Diseases
86-003037
Parasitic Copepods
86-003037
Pennella
86-003037
Trifur
86-003037
Sebastiscus marmoratus
Acoustico-Lateralis System
86-002262
Immune Response
86-002478
Nervous System
86-003728
Sound Production
86-002654
Semaprochilodus
Blood Chemistry
86-002550
Semicossyphus pulcher
Foods/Feeding
86-004499
Life History/General
86-004244
Population Studies
86-004244
Semionotidae
Evolution
86-004871
Speciation
86-004871
Taxonomy
86-004871
Semotilus atromaculatus
Biomagnification
86-003143
DNA
86-001401
86-003832
Fecundity
86-003143
Heavy Metals
86-003143
Rodlet Cells
86-003832
86-003833
Semotilus margarita
Alarm Cells
86-004043
Alarm Substances
86-004043
Seriola dumerili
Bacterial Diseases
86-004974
Ciguatera
86-004410
86-005273
Fecundity
86-004410
Foods/Feeding
86-005273
Maturation
86-004410
Parasites/Diseases
86-004974
Spawning
86-004410
Toxins
86-005273
Seriola labandi
Foods/Feeding
86-002800

Seriola lalandi
Identification/Larvae
86-001393
Morphology
86-001393
Seriola purpurascens
Paradeontacylix
86-005131
Parasites/Diseases
86-005131
Trematodes
86-005131
Seriola quinqueradiata
Antibiotics
86-004979
Bacterial Diseases
86-002950
86-002953
86-004963
86-004971
86-004974
86-004979
Biochemical Composition
86-004022
Cage Culture
86-002109
Culture/Propagation
86-001321
86-002109
Diets
86-001321
Enzymes
86-000323
86-000324
Feeding Experiments
86-001321
Gill Parasites
86-005142
Heteraxine heterocerca
86-005142
Immunization
86-004963
Lincomycin
86-004979
Mocardia kampachi
86-002950
Nutrition
86-001321
Olfaction
86-000494
Parasites/Diseases
86-002950
86-002953
86-004963
86-004971
86-004974
86-004979
86-005048
86-005049
86-005061
86-005069
86-005142
Pasteurella
86-004963
Pseudotuberculosis
86-004963
Streptococcus
86-004971
86-004979
Vibrio
86-002953
Viral Diseases
86-005048
86-005049
86-005061

...CONTINUED...
Seriola quinqueradiata
Viral Diseases
86-005069
Yellowtail Ascites Virus
86-005048
86-005049
86-005061
86-005069
Seriola rivoliana
Distribution/Geographical
86-002873
Seriphus politus
Distribution/Vertical
86-000666
Foods/Feeding
86-000666
Movements
86-000666
Serrabrycon
New Genus
86-002915
Serrabrycon magoi
Lepidophagy
86-002915
New Species
86-002915
Serranidae
Early Development
86-004857
Taxonomy
86-004857
Serranus
Aquariums
86-000094
Culture/Propagation
86-000094
Serranus baldwini
Hermaphroditism
86-004428
Spawning Behavior
86-004428
Serranus fasciatus
Hermaphroditism
86-001441
Reproduction
86-001441
Serranus lamprurus
Taxonomy
86-000830
Serrasalmus niger
Calyptospora serrasalmi
86-001829
Parasites/Diseases
86-001829
Protozoan Diseases
86-001829
Serrasalmus rhombeus
Foods/Feeding
86-001675
Mouth Parts
86-001675
Shizothorax davidi fumengensis
New Subspecies
86-001784
Sicydium plumieri
Life History/General
86-001584
Movements
86-001584
Spawning
86-001584
Siganus canaliculatus
Bacterial Diseases
86-000871
Parasites/Diseases
86-000871

...CONTINUED...
Siganus canaliculatus
Streptococcus
86-000871
Siganus oramin
Culture/Propagation
86-000050
86-002105
Early Development
86-000050
Egg Collection
86-002105
Embryology
86-000050
Fingerling Production
86-002105
Induced Maturation
86-000050
Silhouettea sibayi
New Species
86-004820
Sillago analis
Harvest
86-002011
Management/Research--Marine
86-002011
Mortality Rates
86-002011
Sillago ciliata
Fecundity
86-004421
Harvest
86-002011
Management/Research--Marine
86-002011
Maturation
86-004421
Mortality Rates
86-002011
Spawning
86-004421
Sillago sihama
Culture/Propagation
86-000055
Distribution/Seasonal
86-000639
Light
86-001640
Net-Pen Culture
86-000055
Polyculture
86-000055
Pond Culture
86-000055
Salinity
86-002324
Spawning
86-001640
Temperature
86-001640
Siluriformes
Sperm
86-003743
Silurodes hypophthalmus
Parasites/Diseases
86-005119
Silurodiscoides
86-005119
Trematodes
86-005119
Silurus
Bacterial Diseases
86-002946
Flavobacterium
86-002946
Parasites/Diseases
86-002946
Silurus glanis
Bacterial Diseases
86-001801
Foods/Feeding
86-000686
86-000699
Formalin
86-003096
Parasites/Diseases
86-001801
Sodium Chloride
86-003096
Vibrio
86-001801
Sinocyclocheilus lunanensis
New Species
86-001788
Sinocyclocheilus macrocephalus
New Species
86-001788
Sinocyclocheilus oxycephalus
New Species
86-001788
Sinocyclocheilus purpureus
New Species
86-001788
Solea solea
Culture/Propagation
86-000063
86-002116
86-003514
86-003518
86-003535
Diets
86-000063
86-003535
Digestive System
86-002329
Egg Size
86-004404
Enzymes
86-002329
86-003855
Fecundity
86-004404
Feeding Experiments
86-000063
86-003535
Feeds
86-003535
Fingerling Production
86-003518
Induced Maturation
86-003514
Polychlorinated Biphenyls
86-000986
Solea vulgaris
Fecundity
86-001639
Population Studies
86-004305
Production
86-004305
Reproduction
86-001639
Sorubim lima
Life History/General
86-002665
Mimicry
86-002665
Sparidae
Culture/Propagation
86-003484
86-003512
Dentition
86-001365

...CONTINUED...
Sparidae
Early Development
86-003735
Fins
86-003735
Reproduction
86-002751
Reproductive System
86-002751
Spawning
86-002751
Sparus aurata
Age/Growth
86-002434
Amyloodinium ocellatum
86-005026
Bioenergetics
86-002434
Cage Culture
86-003516
Cryptocaryon irritans
86-001812
Culture/Propagation
86-000052
86-000059
86-002116
86-002138
86-003487
86-003488
86-003493
86-003498
86-003499
86-003500
86-003502
86-003511
86-003516
86-003523
86-003525
86-003527
Diets
86-003525
Electrophoresis
86-004100
Endocrinology
86-003817
Feeders
86-002138
86-003527
Feeding Experiments
86-002138
Fertilization
86-003488
Fingerling Production
86-003487
Food Conversion Efficiency
86-002434
Foods/Feeding/Selectivity
86-004530
Fry Production
86-003500
86-003502
86-003511
Gamete Storage
86-003488
Harvest
86-003493
Incubation
86-003498
Induced Maturation
86-003523
Larvae
86-000059
Light
86-000059
Lymphocystis
86-005057
...CONTINUED...
Sparus aurata
Management/Research--Marine
86-003493
Nutrition
86-003525
Oxygen Consumption
86-003502
Parasites/Diseases
86-001812
86-004932
86-005026
86-005057
Protozoan Diseases
86-001812
86-005026
Spawning Cycle Regulation
86-003499
Swimbladder
86-002226
Tank Culture
86-000059
Trophic Relationships
86-004530
Viral Diseases
86-005057
Water Quality
86-000059
Sphoeroides maculatus
Life History/General
86-002699
Management/Research--Marine
86-002699
Sphoeroides pachygaster
Distribution/Geographical
86-001724
Sphyraenoidei
Early Development
86-004811
Taxonomy
86-004811
Sphyrna lewini
Cestodes
86-000930
Distribution/Geographical
86-000778
Otobothrium kurisi
86-000930
Parasites/Diseases
86-000930
Schooling Behavior
86-000492
Sphyrna zygaena
Distribution/Geographical
86-004711
Spirinchus lanceolatus
Population Studies
86-002726
Spondyliosoma cantharus
Bacterial Diseases
86-004965
Parasites/Diseases
86-004965
Vibrio
86-004965
Spratelloides gracilis
Fecundity
86-000603
Maturation
86-000603
Reproduction
86-000603
Spawning
86-000603
Sprattus
Electrophoresis
86-000842

...CONTINUED...
Sprattus
Fish Lists/Keys
86-000842
Meristic Studies
86-000842
Variation Studies
86-000842
Sprattus sprattus
Abundance/Factors of
86-004767
Age/Growth
86-004623
Biomass
86-004329
Eutrophication
86-004767
Light
86-005492
Management/Research--Marine
86-005677
Nets/Netting
86-005492
Population Studies
86-004329
Salinity
86-004767
Temperature
86-004767
Trawls
86-005492
Sprattus sprattus sprattus
Lipid Composition
86-004082
Squalus acanthias
Acidosis
86-002533
Acoustico-Lateralis System
86-000206
Age/Growth
86-000716
Biomagnification
86-003089
Blood Chemistry
86-002352
86-002443
86-002532
Calcium
86-002436
Cardio-Vascular System
86-002367
86-002523
Cataracts
86-003043
Cestodes
86-005121
Embryology
86-000146
Excretory System
86-000370
86-002377
86-002398
86-002461
Fin Rays
86-000716
Heavy Metals
86-003089
Hormones
86-002523
Integument
86-002565
Marking/Tagging
86-003230
Mercury
86-003089
Nitrogen Metabolism
86-002366
...CONTINUED...
Squalus acanthias
Nitrogen Metabolism
86-002443
Olfaction
86-003802
Osmoregulation
86-002377
86-002398
Parasites/Diseases
86-003043
86-005121
pH Regulation
86-002327
86-002461
86-002532
86-002533
Rectal Gland
86-001503
86-002259
86-002338
86-002355
86-002364
86-002388
86-002422
86-002423
86-002435
86-002436
86-002441
86-002462
86-002519
86-002523
86-002579
86-003905
Reproduction
86-000296
Reproductive System
86-002442
Stress
86-001430
Trilocularia acanthiaevulgaris
86-005121
Vision
86-002287
Stegastes fasciolatus
Territorial Behavior
86-001559
Stegastes leucostictus
Spawning
86-004405
Stellifer chaoi
New Species
86-000813
Stenodus leucichthys
Culture/Propagation
86-003399
Life History/General
86-004227
Sternoptychidae
Early Development
86-004782
Taxonomy
86-004782
Stizostedion canadense
Culture/Propagation
86-003435
Hybridization
86-003435
Stizostedion lucioperca
Age/Growth
86-000707
86-005221
Bacterial Diseases
86-002964
Foods/Feeding
86-000699

...CONTINUED...
Stizostedion lucioperca
Foods/Feeding
86-000707
86-005221
Hemorrhagic Septicemia
86-002964
Life History/General
86-002697
Management/Research--Marine
86-001266
Mortality Rates
86-005221
Parasites/Diseases
86-002964
Pseudomonas
86-002964
Temperature
86-005221
Thermal Pollution
86-005221
Stizostedion vitreum
Age/Growth
86-000733
Ammonia
86-003128
Arsenic
86-005212
Biomagnification
86-000956
86-005212
Cannibalism
86-004198
Commercial Fishing
86-002736
Culture/Propagation
86-003435
86-003437
86-003444
86-003445
86-003457
Egg Production
86-003445
Epidermal Lesions
86-000905
Exploitation Rates
86-002737
Fingerling Production
86-003437
86-003444
Foods/Feeding
86-004198
Heavy Metals
86-000956
86-005212
Hybridization
86-003435
Mercury
86-000956
86-005212
Mortality Factors
86-004198
Otoliths
86-000733
Parasites/Diseases
86-000905
86-002937
Population Studies
86-002736
86-002737
86-004316
Selenium
86-005212
Temperature
86-003437
Trace Metals
86-005212

...CONTINUED...
Stizostedion vitreum
Viral Diseases
86-000905
Stizostedion vitreum vitreum
Abundance/Factors of
86-000799
86-001617
Age/Growth
86-001701
86-004361
86-004653
Competition
86-000503
Culture/Propagation
86-001617
86-002133
Diets
86-002133
Egg Collection
86-001617
Egg Survival
86-000799
Exploitation Rates
86-003288
Fecundity
86-001701
Feeding Experiments
86-002133
Feeds
86-002133
Fry Production
86-002133
Habitat Selection
86-000503
Harvest
86-003288
Larval Drift
86-004393
Management/Research--Lakes
86-003288
86-004361
Maturation
86-004361
Organics
86-001001
Parasites/Diseases
86-000855
86-005073
Population Studies
86-001617
86-003288
86-004361
Pulse Fishing
86-003288
Spawning
86-004393
Tumors
86-005073
Viral Diseases
86-005073
Stlengis misakia
Taxonomy
86-004876
Stomias
Taxonomy
86-002894
Stomiatoidea
Early Development
86-003736
Stomiiformes
Early Development
86-004782
Taxonomy
86-004782
86-004823

Stromateoidei
Early Development
86-004841
Taxonomy
86-004841
Synaphobranchus kaupi
Lophoura gracilis
86-003020
Parasites/Diseases
86-003020
Parasitic Copepods
86-003020
Synbranchus marmoratus
Blood Chemistry
86-004132
86-004133
Electrophoresis
86-004132
86-004133
Respiration
86-004047
Synchirus gilli
Early Development
86-003753
Identification/Larvae
86-003753
Syngnathidae
Brooding Behavior
86-002630
Syngnathus floridae
Foods/Feeding/Selectivity
86-002788
Predator/Prey Relationships
86-002788
Synodus lucioceps
Distribution/Geographical
86-000759
Synoptura lusitanica
Distribution/Geographical
86-004706
Tachysurus
Eggs
86-000256
Reproduction
86-000256
Tachysurus platystomus
Life History/General
86-000530
Takifugu rubripes
Epitheliocystis
86-002981
Kuchijiro-sho
86-005054
86-005062
86-005070
86-005071
Parasites/Diseases
86-002981
86-005054
86-005062
86-005070
86-005071
Protozoan Diseases
86-002981
Ulcers
86-005062
86-005071
Viral Diseases
86-005054
86-005062
86-005070
86-005071
Taumakoides marilynae
New Species
86-000822
Taumakoides matti
New Species
86-000822
Taumakoides rua
New Species
86-000822
Tautogolabrus adspersus
Blood Chemistry
86-003903
Tetradontidae
Aquariums
86-001330
Culture/Propagation
86-001330
Tetraodontidae
Taxonomy
86-004832
Tetraodontiformes
Taxonomy
86-004863
Tetraodontoidei
Early Development
86-003746
Tetrapterus audax
Distribution/Factors of
86-004736
Distribution/Geographical
86-000761
Temperature
86-004736
Tetraputurus audax
Biomagnification
86-003071
Heavy Metals
86-003071
Mercury
86-003071
Selenium
86-003071
Thalassoma bifasciatum
Early Development
86-002283
Metamorphosis
86-002283
Population Studies
86-002740
Theragra chalcogramma
Age/Growth
86-002827
86-004045
ATP
86-003939
Biochemical Composition
86-003908
Condition Factors
86-004045
Egg Drift
86-004425
Egg Size
86-004425
Fecundity
86-000622
86-004388
Food Conversion Efficiency
86-004045
Hybridization
86-003939
Life History/General
86-004231
86-004288
Management/Research--Marine
86-004288
Metabolic Rates
86-003997
Mortality Factors
86-002884

...CONTINUED...
Theragra chalcogramma
Population Studies
86-004288
Predator/Prey Relationships
86-002884
Respiration
86-003997
Spawning
86-004425
Starvation
86-004045
Temperature
86-003997
Thermarces
New Genus
86-002909
Thermarces andersoni
New Species
86-002909
Thermarces cerberus
New Species
86-002909
Thunnus alalunga
Biomagnification
86-005180
Creel Census
86-005428
Fisherman Surveys
86-005428
Foods/Feeding
86-001660
Harvest
86-005428
Heavy Metals
86-005180
Mercury
86-005180
Selenium
86-005180
Trace Metals
86-005180
Thunnus albacares
Biomagnification
86-005180
Commercial Fishing
86-005669
Foods/Feeding
86-002800
86-004573
Heavy Metals
86-005180
Management/Research--Marine
86-005669
Mercury
86-005180
Selenium
86-001406
86-005180
Trace Metals
86-005180
Thunnus maccoyii
Management/Research--Marine
86-003272
Thunnus thynnus
Biomagnification
86-003062
Cadmium
86-003062
Caligus coryphaenae
86-000918
Copper
86-003062
Culture/Propagation
86-003504
Distribution/Factors of
86-000646
...CONTINUED...
Thunnus thynnus
Distribution/Vertical
86-000646
Heavy Metals
86-003062
Iron
86-003062
Lead
86-003062
Musculature
86-001436
Parasites/Diseases
86-000918
Parasitic Copepods
86-000918
Thermal Regulation
86-001436
Zinc
86-003062
Thymallidae
Genetic Divergence
86-004895
Taxonomy
86-004895
Thymallus arcticus
Age/Growth
86-000747
Competition
86-000497
Culture/Propagation
86-000014
Exploitation Rates
86-000573
Flow Regimes
86-000536
Habitat Selection
86-000497
Lake Culture
86-000014
Life History/General
86-000516
86-000536
Management/Research--General
86-000516
Management/Research--Rivers and Streams
86-000573
Marking/Tagging
86-003228
Mine Effluents
86-000966
Movements
86-004441
Placer Mining
86-000966
Population Studies
86-000573
Sedimentation
86-000966
Territorial Behavior
86-000497
Trophic Relationships
86-000497
Thymallus arcticus tricolor
Zoogeography
86-004682
Thymallus thymallus
Fry Emergence
86-002764
Harvest
86-004247
Karyotypes
86-002614
Life History/General
86-004247

...CONTINUED...
Thymallus thymallus
Light
86-002764
Management/Research--Lakes
86-004247
Movements
86-002764
Zoogeography
86-004723
Thyristes atun
Otonconia
86-003709
Tilapia
Aspergillus
86-001816
Bacterial Diseases
86-001798
Cage Culture
86-000022
Culture/Propagation
86-000022
86-002021
86-002087
86-002130
86-002131
86-002166
86-003453
86-003468
Diets
86-002166
DNA
86-001537
Feeding Experiments
86-002166
Feeds
86-002166
Fertilization/Soil and Water
86-002130
86-002131
Fish as Food
86-001270
Flexibacter columnaris
86-001798
Fluorescent Antibody Technique
86-001816
Fungal Diseases
86-001816
Karyotypes
86-001537
Livestock-Fish Culture
86-003453
Marketing
86-001270
Nutrition
86-002166
Parasites/Diseases
86-001798
86-001816
86-004922
Polyculture
86-002087
Pond Culture
86-002087
86-003453
Raceway Culture
86-000022
Tank Culture
86-000022
Tilapia aurea
Cadmium
86-005225
Competition
86-000044
Culture/Propagation
86-000044

...CONTINUED...
Tilapia aurea
Culture/Propagation
86-000079
86-002072
86-002100
86-002161
86-002651
86-003410
86-003578
Diets
86-000079
86-003578
Feeding Experiments
86-000079
86-003578
Growth
86-003410
Heavy Metals
86-005225
Hybridization
86-002581
86-003410
Light
86-002433
Lipid Metabolism
86-000079
Noise
86-002651
Nutrition
86-002161
Polyculture
86-000044
86-002072
Pond Culture
86-000044
86-002072
86-003410
Reproduction
86-002433
Sewage Effluents
86-002100
Sonic Stimuli
86-002651
Stress
86-002428
Temperature
86-002428
86-002581
86-003937
Thermal Shock
86-003937
Vitamins
86-002161
Tilapia guineensis
Brackishwater Culture
86-002117
Cage Culture
86-002117
Culture/Propagation
86-002117
Tilapia hornorum
Cichlidogyrus sclerosus
86-005134
Culture/Propagation
86-002154
Diets
86-002154
Feeding Experiments
86-002154
Hybridization
86-002154
86-002581
Parasites/Diseases
86-005134
Temperature
86-002581

...CONTINUED...
Tilapia hornorum
Trematodes
86-005134
Tilapia mariae
Cannibalism
86-004211
Tilapia mossambica
Bacterial Diseases
86-004973
Biochemical Composition
86-000219
Cichlidogyrus sclerosus
86-005134
Distribution/Geographical
86-004698
Edwardsiella tarda
86-004973
Embryology
86-000139
Endocrinology
86-000139
86-003946
Fenitrothion
86-000980
Hybridization
86-002581
Insecticides
86-000980
Parasites/Diseases
86-004973
86-005134
pH
86-003090
Pigments
86-003786
Starvation
86-000219
Temperature
86-002581
Trematodes
86-005134
Tilapia nilotica
Aeromonas
86-004944
Aeromonas hydrophila
86-002966
Amino Acids
86-002507
Bacterial Diseases
86-002966
86-004944
Baycarb
86-005228
Bionex
86-005228
Carotenoids
86-002463
Culture/Propagation
86-002154
86-002164
86-003410
86-003411
86-003412
86-003426
86-003427
86-003463
86-003528
86-003541
86-003542
86-004920
86-005228
Cypermethrin
86-005228
Diets
86-002154
...CONTINUED...
Tilapia nilotica
Egg Production
86-003463
Eptam
86-005308
Feeding Experiments
86-002154
86-002164
86-003528
86-003541
86-003542
Feeds
86-003528
86-003541
86-003542
Growth
86-003410
86-003411
Herbicides
86-005308
Hybridization
86-002154
86-003410
Insecticides
86-005228
Life History/General
86-003285
Management/Research--Lakes
86-003285
Meristic Studies
86-004148
Modown
86-005308
Nutrient Requirements
86-002507
Nutrition
86-002164
Parapest
86-005228
Parasites/Diseases
86-002966
86-004920
86-004944
86-005031
Polyculture
86-003426
Pond Culture
86-003410
86-003411
86-003426
86-003463
86-003542
Protozoan Diseases
86-005031
Rice-Fish Culture
86-003412
86-003427
86-005228
Salinity
86-004063
Shellcarb
86-005228
Spawning
86-004387
Treflan
86-005308
Variation Studies
86-004148
Tilapia rendalli
Culture/Propagation
86-003464
Polyculture
86-003464
Pond Culture
86-003464

Tilapia zilli
Abundance/Factors of
86-004774
Appetite Stimulants
86-001296
Competition
86-004774
Culture/Propagation
86-000064
86-001296
Feeding Experiments
86-000064
Feeds
86-000064
Foods/Feeding
86-004584
Life History/General
86-003285
Management/Research--Lakes
86-003285
Parasites/Diseases
86-002993
Viral Diseases
86-002993
Tinca tinca
Age/Growth
86-004624
Blood Chemistry
86-002416
Culture/Propagation
86-003441
86-003442
Early Development
86-000496
Hypoxia
86-002415
86-002416
Induced Maturation
86-003441
86-003442
Karyotypes
86-004139
Respiratory System
86-002415
Temperature
86-000496
86-004624
Vision
86-000320
Tor canis
Foods/Feeding
86-001688
Torpediniformes
Distribution/Geographical
86-002864
Torpedo
Distribution/Geographical
86-002864
Electric Organs
86-002297
Electrophysiology
86-002569
Torpedo marmorata
Antigens
86-000226
Copper
86-003088
Defensive Behavior
86-002629
Electroshock
86-002629
Endocrinology
86-000225
86-000226
Heavy Metals
86-003088

...CONTINUED...
Torpedo marmorata
Pigments
86-002291
Predator/Prey Relationships
86-002629
Trachinocephalus myops
Acanthobothrium
86-005087
Cestodes
86-005087
Nematodes
86-005117
Parasites/Diseases
86-005087
86-005117
Raphidascaroides
trachinocephalusi
86-005117
Trachinoidea
Early Development
86-004908
Taxonomy
86-004908
Trachinotus carolinus
Cage Culture
86-002027
Culture/Propagation
86-002027
Heated Water
86-002027
Life History/General
86-004253
Power Plant Effluents
86-002027
Trachinotus falcatus
Foods/Feeding
86-002783
Predator/Prey Relationships
86-002783
Trachuras japonicus
Light
86-000495
Schooling Behavior
86-000495
Trachurus
Early Development
86-003774
Embryology
86-003774
Trachurus japonicus
Biochemical Composition
86-002447
Lipid Content
86-002447
Trachurus mediterraneus ponticus
Abundance/Factors of
86-004763
Biomass
86-004318
Population Studies
86-004318
Temperature
86-004763
Trachurus murphyi
Age/Growth
86-000713
El Nino
86-000713
Maturation
86-000596
Reproduction
86-000596
Spawning
86-000596
Trachurus novaezelandiae
Metabolism
86-003956

...CONTINUED...
Trachurus novaezelandiae
Temperature
86-003956
Trachurus symmetricus
Mortality Factors
86-000797
Starvation
86-002542
Trachurus symmetricus murphyi
Foods/Feeding
86-004552
Trematomus hansoni
Musculature
86-000283
Triakis scyllia
ATP
86-000287
86-000288
Caudal Neurosecretory System
86-000348
Pigments
86-003765
Triakis semifasciata
Cestodes
86-001848
Lacistorhynchus tenuis
86-001848
Parasites/Diseases
86-001848
Tribolodon hakonensis
Body-Scale Relationship
86-003747
Early Development
86-003747
Population Studies
86-004375
Scales
86-003747
Schooling Behavior
86-001558
Trichiuridae
Harvest
86-001139
Trichiurus haumela
Nematodes
86-005117
Parasites/Diseases
86-005117
Raphidascaroides trachinocephalusi
86-005117
Trichiurus lepturus
Distribution/Seasonal
86-004461
Distribution/Vertical
86-004461
Foods/Feeding
86-000685
Trichogaster
Aquariums
86-002174
Culture/Propagation
86-002174
Trichogaster trichopterus
Ichthyophthirius multifiliis
86-005030
Parasites/Diseases
86-005030
Protozoan Diseases
86-005030
Trichopsis pumilus
Aquariums
86-000102
Culture/Propagation
86-000102
Tridentiger obscurus
Reproduction
86-000614
Spawning
86-000614
Trigla lucerna
Life History/General
86-004285
Trigloporus lastoviza
Life History/General
86-004279
Triphoturus
Taxonomy
86-004844
Tripterygion capito
Locomotion
86-002638
Tripterygion varium
Locomotion
86-002638
Trisopterus luscus
Lernaeocera lusci
86-003011
Parasites/Diseases
86-003011
Parasitic Copepods
86-003011
Umbra limi
Abundance/Factors of
86-001761
Life History/General
86-000544
Management/Research--Lakes
86-001761
Population Studies
86-001761
Umbra pygmaea
Life History/General
86-002681
pH
86-001003
86-002681
Uranoscopus scabe
Culture/Propagation
86-003500
Fry Production
86-003500
Uroconger lepturus
Acanthobothrium
86-005087
Cestodes
86-005087
Parasites/Diseases
86-005087
Urolophus halleri
Eimeria halleri
86-001817
Parasites/Diseases
86-001817
Protozoan Diseases
86-001817
Urophysis chuss
Thermal Stratification
86-000507
Valencia bispanica
Electrophoresis
86-002594
Polymorphism
86-002594
Venefica proboscidea
Distribution/Vertical
86-001590
Fish Lists/Keys
86-001590
Identification
86-001590

...CONTINUED...
Venefica proboscidea
Life History/General
86-001590
Ventrifossa
Predator/Prey Relationships
86-004576
Ventrifossa johnboborum
New Species
86-004847
86-004848
Vimba vimba
Embryology
86-002240
Temperature
86-002240
Vinciguerria lucetia
Foods/Feeding
86-004553
Xenestius californiensis
Cleaning Behavior
86-004214
Xenomelaniris venezuelae
Population Studies
86-001624
Xiphias gladius
Biomagnification
86-003071
Distribution/Factors of
86-000646
Distribution/Vertical
86-000646
Gonosomatic Index
86-002761
Heavy Metals
86-003071
Mercury
86-003071
Selenium
86-003071
Sex Ratios
86-002761
Xiphophorus
Aquariums
86-001329
Culture/Propagation
86-001329
Xiphophorus helleri
Coloration
86-004159
Precocious Maturation
86-001468
Reproduction
86-001468
Xiphophorus maculatus
Eggs
86-000142
Endocrinology
86-004030
Maturation
86-004136
Nervous System
86-000373
Olfaction
86-000373
Reproduction
86-000373
Reproductive System
86-000142
Sperm
86-000142
Xyrauchen texanus
Abundance/Factors of
86-004759
Hybridization
86-004759
...CONTINUED...
Xyrauchen texanus
Life History/General
86-004759
Management/Research--Rivers and Streams
86-004759
86-005476
Reintroductions
86-005476
Spawning
86-004423
Stocking/Introductions
86-005476
Temperature
86-002632
Temperature Selection
86-002632
Xyrichthys novacula
Epidermis
86-004083
Integument
86-004083
Xyrichtys pentadactylus
Sex Reversal
86-000342
Zacco temmincki
Pigments
86-002410
Zeiformes
Early Development
86-004905
Taxonomy
86-004905
Zoarces viviparus
Cadmium
86-001908
Embryology
86-000297
Heavy Metals
86-001908
Lactate Dehydrogenase
86-001545
Population Genetics
86-001545
Variation Studies
86-001545
Zoarcidae
Distribution/Geographical
86-000527
Life History/General
86-000527
Taxonomy
86-000527

Administrative Reports
Atlantic Salmon Federation/Annu. Rep. 1985-1986
86-005367
British Columbia Minist. Environ./Annu. Rep. 1984/85
86-001941
EIFAC/1984-85
86-005370
Finn. Game Fish. Res. Inst./Annu. Rep., 1983
86-005371
Freshwater Biol. Assoc./Annu. Rep. 1986
86-005372
MAFF Dir. Fish. Res./Annu. Rep., 1983-84
86-003178
McGill Univ. Inst. Oceanogr./Biennial Rep.,
86-005373
N.H. Fish Game Dep./Annu. Rep. 1984
86-001943
North. Ireland Dep. Agric./Annu. Rep., 1984
86-001944
Aquatic Plants
Control/Biological
86-000001
86-000002
86-000004
86-001340
86-003282
86-003372
86-003419
86-004358
Control/Chemical
86-000002
86-000003
General
86-001278
86-003289
Hydrilla
86-000004
Igran 80W
86-000003
Macrocystis
86-000757
Management/Research--Lakes
86-001278
Toxic Algae
86-001873
86-003126
Trophic Relationships
86-001278
Zostera marina
86-000773
Behavior
Activity Patterns
86-001164
86-002647
86-003310
86-004166
86-004188
86-004190
86-004222
86-004467
86-004581
Aggressive Behavior
86-000470
86-000508
86-002641
86-002674
86-004162

...CONTINUED...

Behavior
Aggressive Behavior
86-004177
86-004180
86-004191
86-004199
86-004204
86-004220
86-004221
Alarm Reaction
86-001573
Arousal
86-002666
Attacks on Humans
86-000559
86-004197
86-004199
86-004204
86-004235
86-004739
Auditory Senses
86-000479
86-000506
86-001579
86-002634
86-002639
86-004179
86-004207
Brooding Behavior
86-000484
86-000600
86-000616
86-000627
86-001575
86-002630
86-004278
86-004389
86-004422
Buoyancy Adjustment
86-002637
86-004175
86-004184
Burrowing Behavior
86-004188
86-004217
Cannibalism
86-000510
86-002071
86-002674
86-004172
86-004198
86-004211
86-004215
86-004511
86-004593
Chemoreception
86-000222
86-000483
86-000605
86-001563
86-001570
86-001578
86-002628
86-002648
86-002658
86-002664
86-003740
86-004189
86-004208
Circadian Rhythms
86-000190
86-004450
Cleaning Behavior
86-004214
Communication
86-000483

...CONTINUED...
Behavior
Communication
86-002646
86-002659
86-004171
Competition
86-000044
86-000487
86-000497
86-000503
86-000655
86-000660
86-000677
86-000705
86-001556
86-001571
86-002641
86-002653
86-002677
86-002678
86-002797
86-002799
86-002824
86-002839
86-002885
86-002888
86-004165
86-004178
86-004181
86-004192
86-004193
86-004194
86-004498
86-004500
86-004514
86-004774
86-004779
Coprophagy
86-001567
Defensive Behavior
86-002629
86-002635
Dominance
86-000488
86-002653
Electrical Communication
86-003915
Escape Behavior
86-004176
86-004183
86-004186
86-004187
86-004195
86-004489
86-004612
Eye-picking
86-002636
86-002660
Foods/Feeding
86-001680
86-002794
86-003769
86-004503
86-004519
86-004558
86-004567
86-004570
86-004594
86-004608
Fright Behavior
86-000474
86-000481
86-000482
86-001555
General
86-001580

...CONTINUED...
Behavior
General
86-004185
86-004734
Genetics
86-000447
Habitat Selection
86-000485
86-000497
86-000499
86-000502
86-000503
86-000512
86-000542
86-000563
86-000574
86-000630
86-000677
86-000786
86-000798
86-001231
86-001278
86-001561
86-001566
86-001686
86-002631
86-002633
86-002642
86-002643
86-002645
86-002656
86-002663
86-002669
86-002675
86-002678
86-002685
86-002690
86-002801
86-002804
86-003189
86-003297
86-004160
86-004169
86-004188
86-004194
86-004196
86-004202
86-004203
86-004206
86-004222
86-004223
86-004224
86-004228
86-004245
86-004272
86-004277
86-004370
86-004373
86-004390
86-004451
86-004452
86-004453
86-004468
86-004522
86-004639
86-004688
86-004775
86-004779
86-005585
86-005608
Home Range
86-000473
86-002649
86-002652
86-004212

...CONTINUED...
Behavior
Home Range
86-004459
Imprinting
86-002668
Individual Recognition
86-000475
Kin Recognition
86-002644
Learning
86-002670
Lepidophagy
86-002915
Light
86-000495
Locomotion
86-000477
86-002638
86-003780
Magnetic Fields
86-002673
Mimicry
86-002636
86-002665
Olfaction
86-000395
86-000476
86-000480
86-000493
86-000494
86-001553
86-002325
86-002648
86-002659
86-003144
86-004167
86-004168
86-004209
Orientation/Homing
86-000476
86-000491
86-001553
86-001570
86-002649
86-002652
86-002671
86-002673
86-004161
86-004189
86-004200
86-004201
86-004216
86-004435
86-004459
Pheromones
86-000490
86-001553
86-001560
86-001570
86-002321
Photoperiodism
86-000501
Phototropism
86-001568
Predator/Prey Relationships
86-002661
86-002662
Rheotoxin
86-004443
Rheotropism
86-004220
Schooling Behavior
86-000489
86-000492
86-000495

...CONTINUED...
Behavior
Schooling Behavior
86-001530
86-001557
86-001558
86-001564
86-001678
86-002647
86-002662
86-004164
86-004457
86-004466
Sibling Recognition
86-004208
Social Behavior
86-000478
86-000488
86-001565
86-001569
86-002592
86-002640
86-002667
86-004213
Sonic Stimuli
86-002651
Sound Production
86-001577
86-002646
86-002654
86-004171
Spawning Behavior
86-000478
86-000597
86-000601
86-000605
86-000612
86-000615
86-000616
86-000617
86-000618
86-000619
86-001565
86-001634
86-001638
86-001641
86-001642
86-001643
86-001644
86-001646
86-001649
86-002452
86-002453
86-002646
86-002744
86-002749
86-002750
86-002757
86-003883
86-004396
86-004399
86-004405
86-004415
86-004426
86-004428
86-004429
86-004433
86-004439
86-004570
86-004779
Spawning Migration
86-004200
86-004216
86-004435
Swimming Performance
86-000505

...CONTINUED...
Behavior
Swimming Performance
86-000509
86-000650
86-001466
86-001562
86-001572
86-001576
86-002676
86-003686
86-004174
86-004182
86-004219
Symbiosis
86-001554
Techniques/Chemoreception
86-002650
Temperature Selection
86-000472
86-000490
86-000498
86-000643
86-001574
86-002632
86-002657
86-002672
86-004443
Terrestrial Grazing
86-000531
Terrestrial Locomotion
86-004590
Territorial Behavior
86-000497
86-001559
86-002782
86-004205
86-004218
86-004433
86-004570
Vision
86-000471
86-000486
86-000489
86-000500
86-000504
86-000513
86-002655
86-004173
Bibliographies
Colorado
86-005737
Culture/Propagation
86-002024
NMFS Woods Hole Lab./Publs. 1985
86-005735
Polyodon spathula
86-005736
Systematic Zoology/Index, 1952-1985
86-005734
Culture/Propagation--Coldwater
Ammonia
86-001287
86-003401
Appetite Stimulants
86-003404
Artificial Streams
86-003407
Brackishwater Culture
86-003403
Brood Stock
86-003406
Cage Culture
86-000016
86-000019

...CONTINUED...
Culture/Propagation--Coldwater
Cage Culture
86-002056
86-002057
86-003391
86-003394
86-003395
86-003402
86-003409
86-005478
Delayed Hatching
86-000015
86-003243
86-003245
86-004555
Diets
86-000061
86-000062
86-000073
86-001319
86-001322
86-002134
86-002141
86-002144
86-002147
86-002155
86-002165
86-003531
86-003534
86-003546
86-003556
86-003567
86-003571
86-003577
86-003581
Disinfection
86-002035
Egg Quality
86-003577
Exercise
86-002051
Feeding Experiments
86-000061
86-000062
86-000065
86-000066
86-000073
86-000074
86-000415
86-001313
86-001322
86-002051
86-002134
86-002141
86-002144
86-002147
86-002155
86-002157
86-003526
86-003531
86-003532
86-003534
86-003544
86-003546
86-003555
86-003565
86-003567
86-003571
86-003574
86-003577
86-003581
86-003587
Feeds
86-000060
86-000062

...CONTINUED...
Culture/Propagation--Coldwater
Feeds
86-000065
86-000066
86-000074
86-000078
86-000084
86-001313
86-002147
86-002165
86-003526
86-003529
86-003546
86-003551
86-003555
86-003565
86-003567
86-003574
Fertilization
86-003408
Fertilization/Soil and Water
86-003400
Filtration Systems
86-002054
Fish Hatchery Effluents
86-001285
86-002056
86-003556
Fry Production
86-003396
General
86-001286
86-002047
86-002058
86-003399
86-005579
General/Canada: Alberta
86-001284
General/France
86-002046
General/Japan
86-003397
86-003398
Genetic Strains
86-002059
Growth
86-002051
Handling Mortality
86-002518
Heated Water
86-002048
Hybridization
86-002045
Incubation
86-003393
Incubators
86-000013
Induced Maturation
86-002061
86-002062
86-004086
Invertebrate Forage
86-003544
86-003545
Lake Culture
86-000014
86-002049
Loading Levels
86-000017
Net-Pen Culture
86-002052
Nutrition
86-000061
86-000073
86-000084

...CONTINUED...
Culture/Propagation--Coldwater
Nutrition
86-001319
86-002143
86-003531
86-003532
86-003545
86-003556
86-003565
86-003577
86-003581
86-004996
Ozone
86-002035
Pigmenters
86-002063
86-002064
86-002101
Polyculture
86-003394
Polyploidy
86-000452
Pond Culture
86-003391
86-005478
86-005433
86-005620
Power Plant Effluents
86-002048
Production
86-002049
Rearing Density
86-001298
86-002060
Recirculating Systems
86-001287
86-001335
86-002054
Selective Breeding
86-000012
Sex Determination
86-002050
86-002055
Sex Reversal
86-002055
Spawning Channels
86-000018
86-005610
Spawning Cycle Regulation
86-002053
Starvation
86-003396
Tank Culture
86-003391
Transportation
86-005103
Vitamins
86-003532
Water Quality
86-003401
86-003405
Culture/Propagation--General
Aeration
86-001334
86-002182
86-002184
86-002185
Anesthetics
86-005278
Appetite Stimulants
86-003524
86-003562
Aquariums
86-000091
86-000101

...CONTINUED...
Culture/Propagation--General
Aquariums
86-000104
86-000113
86-000114
86-000115
86-001304
86-003594
86-003608
Aquatic Plant Control
86-000003
86-001340
Bacteria
86-000009
86-003378
Bibliographies
86-002024
Broodstock
86-003585
Cage Culture
86-002027
California
86-003380
86-003381
86-003390
California: Humboldt Bay
86-005688
Chemical Registration
86-002038
Colorado
86-001176
Costa Rica
86-002034
Diets
86-002139
86-003538
86-003540
86-003550
86-003582
Disinfection
86-001809
Egypt
86-002081
Extension Services
86-002033
Feeders
86-000085
86-001338
86-003536
Feeding Experiments
86-003538
86-003550
86-003552
86-003559
86-003570
Feeds
86-000067
86-000068
86-000071
86-001314
86-002139
86-002148
86-003524
86-003570
86-003579
86-003582
Fertilization/Soil and Water
86-005527
Filtration Systems
86-002183
86-002189
Fish Grading
86-003613
Fish Hatchery Effluents
86-002188

...CONTINUED...
Culture/Propagation--General
Fish Hatchery Effluents
86-002196
86-003376
Florida
86-000005
Foam Fractionation
86-002196
Forage Collection
86-003614
Forage Production
86-002187
86-002193
86-002194
86-003609
Gamete Storage
86-003611
General
86-000006
86-000008
86-001280
86-002031
86-002041
86-002042
86-002043
86-003374
86-003375
Genetic Strains
86-002607
Heated Water
86-002026
86-002027
86-002036
Hydroponics
86-002044
Inbreeding
86-002039
Indonesia
86-003383
Induced Maturation
86-001304
86-001339
86-002195
Invertebrate Culture
86-002032
Iraq
86-002020
Israel
86-001282
Livestock-Fish Culture
86-003387
Malaysia
86-003383
Maturation
86-003379
Middle East
86-002022
86-002023
Modeling
86-001279
86-002037
Morocco
86-002030
Nutrition
86-001320
86-003538
86-003539
86-003540
86-003549
86-003553
86-003585
86-003586
Oxygenation
86-003385
Philippines
86-003386

...CONTINUED...
Culture/Propagation--General
Piscicides/Registration
86-002038
Plankton Control
86-001340
Planning
86-002025
Polyculture
86-002026
86-002044
Pond Circulation
86-002184
Pond Construction
86-000007
Pond Culture
86-000116
86-002028
86-002184
86-002185
Power Plant Effluents
86-002026
86-002027
86-002036
Recirculating Systems
86-000011
86-002183
86-002189
86-002192
86-003610
86-003612
Saudi Arabia
86-002021
Selective Breeding
86-002039
86-004106
Sewage Effluents
86-002040
86-003384
86-005527
Sex Determination
86-003379
Soils
86-000007
Solar Heating
86-002192
South America
86-002924
Tadpole Control
86-001336
86-002190
Taiwan
86-002029
Tank Culture
86-003389
Techniques/Pumps
86-002186
Thailand
86-003383
Transportation
86-003589
United States
86-001281
USSR
86-003373
Vitamins
86-003549
Water Supply
86-002028
86-003377
Culture/Propagation--Invertebrates
Artemia
86-002187
86-002193
Daphnia magna
86-002194
Culture/Propagation--Marine
Aquariums
86-000090
86-000094
86-000099
86-000100
86-000109
86-000110
86-001308
86-001325
86-001330
86-003593
86-003596
Baitfish Culture
86-002107
Brackishwater Culture
86-002088
86-002117
86-003515
Cage Culture
86-001310
86-002109
86-002110
86-002111
86-002112
86-002117
86-002119
86-002121
86-002122
86-003394
86-003491
86-003497
86-003508
86-003516
86-003517
Carnitine
86-001309
Diets
86-000063
86-000082
86-001312
86-001321
86-002135
86-002145
86-002163
86-003525
86-003533
86-003535
86-003554
86-003575
Economics
86-001308
Egg Collection
86-000030
86-002105
Egg Production
86-002108
86-003501
Egg Quality
86-000081
Feeders
86-002138
86-003527
Feeding Experiments
86-000058
86-000063
86-000076
86-000080
86-000081
86-000082
86-001312
86-001321
86-002111
86-002132
86-002135

...CONTINUED...
Culture/Propagation--Marine
Feeding Experiments
86-002138
86-002145
86-002149
86-002150
86-002163
86-002167
86-003530
86-003533
86-003535
86-003554
86-003557
86-003575
Feeds
86-000070
86-000076
86-000080
86-001312
86-002167
86-003530
86-003535
86-003547
86-003554
Fertilization
86-003488
Fertilization/Soil and Water
86-000058
86-002130
86-002131
Fingerling Production
86-002105
86-002106
86-002124
86-003487
86-003518
Fish Kills
86-002113
Forage Collection
86-003486
Forage Production
86-002129
86-003492
86-003547
Fry Production
86-002120
86-003500
86-003502
86-003506
86-003509
86-003510
86-003511
86-003519
86-003520
86-003521
86-003530
Gamete Storage
86-003488
General
86-000052
86-001308
86-002128
86-003484
86-003493
86-003504
86-003512
General/France
86-002116
General/Japan
86-003483
Growth
86-002145
86-003513
86-003521
Growth Depressents
86-001309

...CONTINUED...
Culture/Propagation--Marine
Growth Stimulants
86-001309
Handling Mortality
86-002168
86-002170
86-002171
Hatchery Design
86-003503
Heated Water
86-002110
Incubation
86-003498
Induced Maturation
86-000050
86-000051
86-000053
86-002114
86-002125
86-003505
86-003507
86-003514
86-003523
Invertebrate Forage
86-000076
Lagoon Culture
86-003494
Larvae
86-000059
Light
86-000059
Maturation
86-003490
Modeling
86-003513
Mortality Factors
86-002113
86-003522
Net-Pen Culture
86-000055
86-002052
Nutrition
86-000076
86-001312
86-001321
86-002132
86-002135
86-002167
86-003525
86-003533
Oxygen Consumption
86-003502
Polyculture
86-000055
86-002115
86-002127
86-003394
Polyploidy
86-002617
86-002618
Pond Culture
86-000055
86-000056
86-000057
86-000058
86-001297
86-002114
86-002123
86-002124
86-002126
86-002127
86-003482
Power Plant Effluents
86-002110
Recirculating Systems
86-002191

...CONTINUED...
Culture/Propagation--Marine
Recirculating Systems
86-003489
86-003496
Salinity
86-002120
86-003510
Solar Heating
85-002191
Spawning Cycle Regulation
86-003485
86-003499
Summerkill
86-000057
Tank Culture
86-000059
86-001307
86-002108
86-002118
86-003491
86-003495
86-003522
Temperature
86-003513
86-003522
Valliculture
86-003515
Vitamins
86-003575
Water Quality
86-000056
86-000059
86-001297
Water Supply
86-002181
Culture/Propagation--Warmwater
Appetite Stimulants
86-001296
Aquariums
86-000088
86-000089
86-000092
86-000093
86-000095
86-000096
86-000097
86-000098
86-000102
86-000103
86-000105
86-000106
86-000107
86-000108
86-000111
86-000112
86-001323
86-001324
86-001326
86-001327
86-001328
86-001329
86-001331
86-001332
86-001333
86-002172
86-002173
86-002174
86-002175
86-002176
86-002177
86-002178
86-002179
86-002180
86-003592
86-003595

...CONTINUED...
Culture/Propagation--Warmwater
Aquariums
86-003597
86-003598
86-003599
86-003600
86-003601
86-003602
86-003603
86-003604
86-003605
86-003606
86-003607
Aquatic Plant Control
86-003419
Bacteria
86-000028
Baitfish Culture
86-002097
86-002102
86-003424
Benthos
86-003470
Biofiltration
86-003420
Brackishwater Culture
86-001291
86-002067
Brood Stock
86-000032
86-001290
86-002075
86-003479
Cage Culture
86-000022
86-000027
86-002086
86-003395
86-003409
86-003416
Cannibalism
86-002071
Diets
86-000077
86-000079
86-000083
86-001316
86-002133
86-002137
86-002146
86-002151
86-002154
86-002156
86-002162
86-002166
86-003548
86-003558
86-003560
86-003561
86-003563
86-003566
86-003576
86-003578
86-003588
Economics
86-000021
86-002068
86-002077
86-003431
Egg Collection
86-001617
86-002082
Egg Production
86-003445
86-003463

...CONTINUED...
Culture/Propagation--Warmwater
Egg Quality
86-003443
Feeding Experiments
86-000040
86-000064
86-000069
86-000075
86-000077
86-000079
86-000083
86-000086
86-001311
86-001316
86-001317
86-002074
86-002090
86-002091
86-002092
86-002133
86-002136
86-002137
86-002140
86-002142
86-002146
86-002151
86-002154
86-002156
86-002160
86-002164
86-002166
86-003425
86-003528
86-003537
86-003541
86-003542
86-003548
86-003558
86-003560
86-003561
86-003563
86-003564
86-003566
86-003568
86-003569
86-003573
86-003576
86-003578
86-003580
86-003583
86-003584
Feeds
86-000064
86-000069
86-000075
86-000077
86-000083
86-000086
86-001311
86-001318
86-002133
86-002136
86-002153
86-002166
86-003425
86-003447
86-003528
86-003537
86-003541
86-003542
86-003543
86-003561
86-003569
86-003580
86-003584

...CONTINUED...
Culture/Propagation--Warmwater
Feeds
86-003588
Fertility
86-002082
Fertilization
86-002082
Fertilization/Soil and Water
86-000029
86-000040
86-000042
86-000045
86-001294
86-002090
86-002091
86-002092
86-003447
86-003448
86-003475
86-003478
86-004920
Filtration Systems
86-003422
Fingerling Production
86-003437
86-003444
86-003446
Food Conversion Efficiency
86-003568
Fry Production
86-000043
86-000333
86-001333
86-002099
86-002133
86-003573
General
86-000036
86-000037
86-000039
86-000049
86-001300
86-002065
86-002083
86-003388
86-003417
86-003433
86-003436
86-003439
86-003452
86-003457
86-003466
86-003467
86-003468
86-003469
86-003472
86-003473
86-003481
General/Canada: British Columbia
86-001301
General/Florida
86-003465
General/Guam
86-002078
General/Philippines
86-003386
General/Thailand
86-003382
Genetic Strains
86-000031
Growth
86-000026
86-001306
86-002066
86-003410

...CONTINUED...
Culture/Propagation--Warmwater
Growth
86-003411
86-003473
Gynogenesis
86-004113
86-004125
Handling Mortality
86-000249
Hatchery Design
86-003429
Heated Water
86-003428
Hybridization
86-000026
86-000041
86-000465
86-002080
86-002098
86-002099
86-002154
86-002584
86-003410
86-003434
86-003435
86-003474
Inbreeding
86-001289
Induced Maturation
86-000035
86-000606
86-001292
86-001295
86-001305
86-002069
86-002076
86-002079
86-002084
86-002085
86-002095
86-002096
86-002099
86-003418
86-003423
86-003432
86-003438
86-003441
86-003442
86-003449
86-003456
86-003461
86-003462
Invertebrate Forage
86-003572
Livestock-Fish Culture
86-003453
Mangroves
86-000036
Maturation
86-002075
Modeling
86-003454
Noise
86-002651
Nursery Areas
86-003448
Nutrition
86-000072
86-002156
86-002160
86-002161
86-002162
86-002164
86-002166
86-003548

...CONTINUED...
Culture/Propagation--Warmwater
Nutrition
86-003560
86-003563
86-003566
86-003568
86-003583
86-003584
Plankton Populations
86-003455
86-003476
86-003477
86-003480
Polyculture
86-000021
86-000029
86-000033
86-000044
86-000045
86-002072
86-002087
86-002089
86-002090
86-002091
86-002092
86-002093
86-002098
86-003426
86-003447
86-003464
Polyploidy
86-000047
86-001526
86-004098
Pond Culture
86-000025
86-000026
86-000028
86-000033
86-000040
86-000041
86-000044
86-000045
86-000046
86-001288
86-001294
86-001299
86-001302
86-002067
86-002072
86-002074
86-002080
86-002087
86-002089
86-002090
86-002091
86-002092
86-002093
86-002094
86-002097
86-002098
86-002140
86-003410
86-003411
86-003415
86-003420
86-003421
86-003426
86-003451
86-003453
86-003459
86-003463
86-003464
86-003470
86-003471

...CONTINUED...
Culture/Propagation--Warmwater
Pond Culture
86-003476
86-003477
86-003478
86-003480
86-003542
86-003572
86-003573
Raceway Culture
86-000022
Recirculating Systems
86-003422
86-003454
Rice-Fish Culture
86-003412
86-003413
86-003427
86-005228
Salinity
86-000040
Selective Breeding
86-000024
86-000032
Sewage Effluents
86-002100
86-003458
86-003460
Sex Determination
86-001337
Spawning Techniques
86-000048
Sterilization
86-000047
Supplemental Feeding
86-002140
86-003573
Tank Culture
86-000022
86-002103
86-002104
86-003430
Taste and Odor Problems
86-003414
86-003450
Transportation
86-002169
86-003590
86-003591
Unisex Populations
86-000038
Vitamins
86-002161
Water Quality
86-001283
86-001303
86-002074
86-003440
Endangered/Threatened Species
Chasmistes liorus
86-005356
Culture/Propagation
86-002073
Cyprinodon macularius
86-005477
Cyprinodon nevadensis mionectes
86-000811
Desert Fishes
86-001059
Gambusia gaigei
86-002721
General
86-001059
86-001538
86-005337

...CONTINUED...
Endangered/Threatened Species
Genetics
86-004131
Micropterus treculi
86-002073
Nevada/White River
86-000792
Poeciliopsis occidentalis
86-005477
Rhinichthys osculus nevadensis
86-000811
South Africa: Transvaal
86-000765
USSR
86-000772
Environmental Factors
Acidification
86-005154
Alkalinity
86-000407
Calcium
86-001516
86-004021
Climate
86-005544
Currents
86-000568
86-000570
86-000648
86-000756
86-000802
86-001726
86-002395
86-002767
86-002801
86-004754
Dewatering
86-004746
El Nino
86-000623
86-000625
86-000713
86-000810
86-001348
86-002741
86-003347
86-003619
86-004751
86-004764
Eutrophication
86-004767
Floods
86-000796
86-001744
86-001759
86-003298
86-004762
86-004772
Flow Regimes
86-000524
86-000554
86-000796
86-001630
86-001655
86-001752
86-001757
86-001759
86-002206
86-002642
86-002713
86-002882
86-004392
86-004447
86-004748
86-004765

...CONTINUED...
Environmental Factors
Freshwater Inflows
86-000788
Gas Supersaturation
86-000184
86-000914
86-003628
86-005108
General
86-000739
86-000806
86-001226
86-001745
86-001758
86-002498
86-002759
86-002882
86-002883
86-004750
86-004753
86-004756
86-004757
Gradient
86-002880
Gravity
86-002395
Groundwater
86-000807
Hydrostatic Pressure
86-000378
86-002299
86-002395
86-002514
86-002748
Light
86-000188
86-000190
86-000201
86-000216
86-000326
86-000387
86-000404
86-000501
86-001568
86-001640
86-002061
86-002076
86-002346
86-002347
86-002433
86-002539
86-002754
86-002764
86-004163
86-004222
86-004440
86-004477
86-005492
Lunar Influences
86-000609
86-000611
86-005494
Magnetic Fields
86-000787
86-002671
86-003393
86-003818
86-003887
86-005491
Nitrogen
86-003885
Noise
86-002651
Ocean Fronts
86-004732

...CONTINUED...
Environmental Factors
Oxygen
86-001882
86-002766
86-003294
86-004032
86-004474
86-004649
86-004748
pH
86-000433
86-000951
86-001459
86-001479
86-001516
86-001750
86-002289
86-002353
86-002681
86-004021
86-004770
Pressure Effects
86-000433
Salinity
86-000152
86-000237
86-000280
86-000290
86-000325
86-000426
86-000427
86-000731
86-000783
86-001364
86-001379
86-001411
86-001421
86-001443
86-001450
86-001473
86-001630
86-001644
86-001747
86-002289
86-002324
86-002328
86-002344
86-002369
86-002418
86-002567
86-002568
86-002867
86-002935
86-003284
86-004008
86-004063
86-004161
86-004343
86-004767
86-004778
Substrate Composition
86-000485
86-002766
86-002882
Temperature
86-000151
86-000178
86-000201
86-000214
86-000243
86-000246
86-000259
86-000266
86-000268
86-000290

...CONTINUED...
Environmental Factors
Temperature
Temperature
86-000293
86-000308
86-000332
86-000333
86-000340
86-000352
86-000382
86-000409
86-000414
86-000420
86-000421
86-000424
86-000433
86-000472
86-000496
86-000500
86-000568
86-000576
86-000628
86-000633
86-000643
86-000645
86-000729
86-000734
86-000756
86-000789
86-000914
86-001351
86-001411
86-001419
86-001437
86-001444
86-001451
86-001452
86-001463
86-001465
86-001473
86-001513
86-001518
86-001560
86-001572
86-001574
86-001640
86-001697
86-001698
86-001748
86-001882
86-001923
86-002053
86-002061
86-002076
86-002111
86-002120
86-002240
86-002244
86-002289
86-002307
86-002313
86-002316
86-002337
86-002340
86-002344
86-002346
86-002347
86-002353
86-002357
86-002376
86-002397
86-002417
86-002428
86-002444
86-002445

...CONTINUED...
Environmental Factors
Temperature
86-002465
86-002472
86-002522
86-002537
86-002539
86-002554
86-002555
86-002574
86-002581
86-002632
86-002657
86-002672
86-002754
86-002766
86-002801
86-002821
86-002867
86-002882
86-002887
86-003158
86-003415
86-003437
86-003473
86-003560
86-003564
86-003825
86-003849
86-003857
86-003882
86-003896
86-003899
86-003913
86-003935
86-003937
86-003945
86-003956
86-003971
86-003979
86-003997
86-004028
86-004054
86-004182
86-004196
86-004443
86-004447
86-004451
86-004469
86-004473
86-004624
86-004637
86-004650
86-004718
86-004732
86-004736
86-004748
86-004763
86-004766
86-004767
86-004776
86-004778
86-005221
86-005390
86-005470
Thermal Stratification
86-000507
86-000643
Thermal Vents
86-004674
Tides
86-000647
86-002539
Turbidity
86-000525

...CONTINUED...
Environmental Factors
Turbidity
86-000941
86-002199
86-003673
86-004485
86-004755
Upwelling
86-000568
86-001343
86-001349
86-004766
Volcanos
86-004535
Weather
86-000791
86-005578
Wind
86-001748
86-004447
86-004752
86-005494
Fish Control/Removal
Electrofishing
86-003127
Lamprey Control
86-001965
86-003224
86-003282
Management/Research--Ponds
86-001158
86-005455
Management/Research--Reservoirs
86-001158
Predator Control
86-003127
Predator Introductions
86-003308
Fish Kills
Cyanide
86-005224
General/Belgium
86-005224
General/Canada: Ontario: Mud Lake
86-001872
Heavy Metals
86-001859
86-005224
Parasites/Diseases
86-001819
Toxic Algae
86-001873
Winterkill
86-000976
86-005612
Fish Lists/Keys
Africa, Southern
86-004735
Alabama: Interior Low Plateau
86-000754
Alabama: Tallapoosa River
86-001732
Alaska: Chena River
86-005593
Alaska: Pacific Ocean
86-004695
Argentina: Chaco
86-004669
Arkansas: Ouchita River Basin
86-004664
Atlantic Ocean, North
86-000780
86-000781
Atlantic Ocean, Northeastern
86-004743

...CONTINUED...
Fish Lists/Keys
Australia
86-004686
Australia: Port Stephens
86-004705
Australia: Victoria
86-000777
Austria: Danube River
86-004665
Baltic Sea
86-000585
Bering Sea
86-004742
Black Sea
86-003356
Botswana: Lower Okavango Swamp
86-004713
Brazil: Amazon River
86-004662
California: Carson River
86-002860
California: Channel Islands
86-000768
California: Channel Islands Natl. Park
86-004676
California: Elkhorn Slough
86-001739
California: Humboldt Bay
86-004689
California: Owens River
86-004677
86-004678
California: Sacramento-San Joaquin Estuary
86-001741
California: San Francisco Bay
86-000788
California: Truckee River
86-002860
Canada: Alberta: Prairie Creek
86-001723
Canada: Labrador
86-001712
Canada: Manitoba
86-001738
Canada: Newfoundland
86-000781
Canada: Nova Scotia
86-001724
Canada: Ontario: Ottawa
86-001718
86-001719
86-001720
Canada: Pacific Ocean
86-004721
Caribbean Sea
86-002842
86-004741
86-004788
Chaenopsinae
86-004788
Chile
86-001731
China: Xizang: Namjagbarwa
86-002876
Colombia
86-004741
Colombia: Malaga Bay
86-004731
Colorado: Colorado River
86-004710
Colorado: Platte River Basin
86-004725
Colorado: Yampa River
86-004710

...CONTINUED...
Fish Lists/Keys
Cuba
86-004660
86-004730
Czechoslovakia: Ohre River
86-002852
Egypt: Lake Mariut
86-004722
England: Northamptonshire: River Nene
86-001711
England: River Trent
86-002848
England: Severn River Estuary
86-002845
Eptatretidae
86-004903
Etheostoma
86-001598
Florida: Everglades
86-004701
France
86-004726
Gulf of Mexico: Flower Garden Banks
86-001729
Hawaii
86-004740
86-005686
Honduras, Central
86-001740
Illinois: Interior Low Plateau
86-000754
India
86-000784
India: Kota District
86-000779
Indiana: Interior Low Plateau
86-000754
Japan: Suruga Bay
86-002738
Japan: Tosa Bay
86-000763
Johnston Atoll
86-002735
Kentucky: Buck Creek
86-000755
Kentucky: Clarks River
86-001728
Kentucky: Interior Low Plateau
86-000754
Kentucky: Rolling Fork
86-001722
Kingsbury State Fish Wildl. Area
86-002868
Louisiana: Grand Isle
86-002855
Manitoulin Lakes
86-004692
Marshall Islands
86-004727
Mediterranean Sea
86-004317
86-004743
Mexico
86-001764
Mexico: Baja California
86-004301
Mexico: Baja California: Colorado River
86-004666
Mexico: Baja California: Laguna Salada
86-004675
Mississippi River, Upper
86-000542

...CONTINUED...
Fish Lists/Keys
Mississippi: Buffalo River
86-001717
Mississippi: Homochitto River
86-001717
Mississippi: Little Tallahatchie River
86-001598
Monacanthidae
86-000777
New England
86-005623
New Zealand
86-004720
New Zealand: Kaikoura
86-002849
New Zealand: Pauatahanui Inlet
86-001725
New Zealand: Porirua Inlet
86-001725
North America
86-000762
Notropis
86-001764
Noturus
86-002846
Ohio: Pike Cty.: Scioto River
86-000776
Oregon: Pacific Ocean
86-001715
86-001736
Pacific Ocean
86-004721
86-004740
86-005628
86-005686
Pacific Ocean: Alaska
86-004695
Pacific Ocean: Oregon
86-001715
Pacific Ocean: Peru
86-002854
Poland: River Dunajec
86-002869
Poland: River Nysa Klodzka
86-002874
Portugal
86-000751
Potomac River
86-004702
Puerto Rico: Laguna Joyuda
86-004737
Rajidae
86-001731
Red Sea
86-004681
Seychelles Islands
86-004704
South Africa: Kei River Estuary
86-001733
South Africa: Mgobozeleni Lake
86-004670
South Carolina: Carolina Sandhills Natl. Wildl. Refuge
86-004717
South Carolina: Wee Tee Lake
86-000770
Sprattus
86-000842
St. Clair-Detroit River System
86-004696
86-004714
Sudan: Dinder Natl. Park
86-002859
Syria
86-000767

...CONTINUED...
Fish Lists/Keys
Tennessee: Interior Low Plateau
86-000754
Utah: Colorado River
86-004710
Utah: Yampa River
86-004710
Venezuela: Rio Chama River
86-001730
West Germany: Danube River
86-004665
Wisconsin: Manitowoc River
86-001721
Wisconsin: Sheboygan River
86-001721
Wisconsin: Twin River
86-001721
Fish Passage
Acoustic Barriers
86-005534
Air Bubblers
86-005537
Barriers
86-005539
Dams
86-001191
86-001196
86-003267
86-003270
86-005531
Fish Grading
86-005532
Fish Lifts
86-005529
Fish Pumps
86-001198
86-001199
Fishways
86-001196
86-001200
86-001201
86-003270
86-003343
General
86-001196
86-003269
86-005531
Impingement/Entrainment
86-001197
86-001199
86-001975
86-003268
86-005530
86-005533
86-005535
86-005536
86-005537
86-005538
86-005540
Power Plants
86-001196
86-001197
86-001199
86-001975
86-005530
86-005533
86-005536
86-005537
86-005538
Pumping Stations
86-005528
Screens
86-001975
86-005540
Fishing Gear
Chemicals
86-001181
...CONTINUED...
Fishing Gear
Electrofishing
86-001178
86-001183
86-001189
86-003894
Explosives
86-003261
Gear Selectivity
86-001971
86-003258
86-005490
86-005491
86-005498
86-005509
86-005512
86-005521
86-005526
General
86-001179
86-001187
86-003256
86-005505
86-005629
Hooks
86-005500
Larval Fish
86-005506
Longlines
86-003260
86-005497
Nets/Fry
86-001188
86-003254
86-003263
86-003265
86-005522
Nets/Fyke Nets
86-001188
Nets/General
86-001180
86-001182
86-005490
Nets/Gill Nets
86-002722
86-003258
86-003262
86-005495
86-005513
86-005514
86-005516
86-005518
Nets/Lights
86-003253
86-003266
86-005493
Nets/Misc.
86-003259
Nets/Pound Nets
86-005651
Nets/Purse Seines
86-005501
86-005517
86-005519
Nets/Push Nets
86-001971
Nets/Seines
86-005507
Nets/Trammel Nets
86-001184
86-003262
Nets/Trap Nets
86-001185
86-001972
86-003257

...CONTINUED...
Fishing Gear
Nets/Trap Nets
86-005508
Nets/Trawls
86-001190
86-001192
86-001193
86-001194
86-001971
86-001974
86-003266
86-005489
86-005491
86-005492
86-005493
86-005498
86-005502
86-005503
86-005504
86-005509
86-005510
86-005512
86-005515
86-005520
86-005521
86-005523
86-005524
86-005526
Rotenone
86-001181
Scuba
86-005511
Set-Lines
86-001186
Traps/Catfish Traps
86-003264
Traps/Fry
86-000574
86-003254
86-003255
Traps/Lighted
86-000574
Traps/Stream
86-001191
86-005525
Vessel Design
86-001973
86-005499
Genetics
Age/Growth
86-000749
86-002605
86-002615
Antifreeze Production
86-004146
Behavior
86-000447
Chromosome Elimination
86-002601
Chromosome Studies
86-001524
86-002616
86-004092
Cloning
86-000449
86-000461
86-004439
Coloration
86-004159
DNA
86-000438
86-000468
86-001527
86-001537
86-004093
...CONTINUED...
Genetics
Electrophoresis
86-000439
86-000445
86-000446
86-000450
86-000456
86-000463
86-000837
86-000842
86-001530
86-001531
86-001542
86-002583
86-002589
86-002590
86-002594
86-002600
86-002606
86-002608
86-002610
86-002612
86-002613
86-002620
86-002621
86-002623
86-002625
86-002627
86-002658
86-004091
86-004097
86-004099
86-004100
86-004107
86-004109
86-004117
86-004121
86-004126
86-004129
86-004132
86-004133
86-004154
86-004158
86-005456
Endangered/Threatened Species
86-004131
Enzymes
86-002583
Fish Stocks
86-000458
86-000459
86-002597
86-004135
Gene Organization
86-001548
86-004103
Gene Polymorphism
86-001543
Gene Transfer
86-001528
General
86-004130
86-004137
Genetic Divergence
86-002580
86-004110
86-004145
86-004147
86-004895
Genetic Fitness
86-004116
Genetic Markers
86-002593
86-003227
86-005456

...CONTINUED...
Genetics
Genetic Markers
86-005464
86-005465
Genetic Strains
86-002590
86-005471
Genomes
86-000438
86-004101
Gynogenesis
86-000464
86-004113
86-004125
Heterozygosity
86-004122
Hybridization
86-000004
86-000443
86-000444
86-000449
86-000453
86-000454
86-000465
86-000519
86-000743
86-001052
86-001177
86-001384
86-001532
86-001541
86-001547
86-001549
86-001551
86-001638
86-001652
86-002098
86-002154
86-002581
86-002584
86-002595
86-002813
86-003434
86-003435
86-003474
86-003939
86-004090
86-004094
86-004120
86-004126
86-004127
86-004129
86-004759
86-005467
Inbreeding
86-001289
86-002039
Insecticide Resistance
86-005330
Karyotypes
86-000440
86-000442
86-000448
86-000455
86-000457
86-000467
86-000469
86-001529
86-001537
86-001544
86-001550
86-002582
86-002585
86-002588
86-002596

...CONTINUED...
Genetics
Karyotypes
86-002599
86-002601
86-002602
86-002611
86-002614
86-002624
86-002914
86-004092
86-004101
86-004118
86-004123
86-004139
86-004140
86-004141
86-004142
86-004144
86-004149
86-004151
Lactate Dehydrogenase
86-001545
86-002620
Learning
86-004102
Malate Dehydrogenase
86-002619
86-002621
Maturation
86-004136
Mutagens
86-001525
86-001539
86-004108
MYC Genes
86-002622
Offspring Size
86-004143
Polymorphism
86-000469
86-002594
86-002619
86-002620
86-002621
86-004097
86-004109
Polyploidy
86-001540
86-002603
Population Genetics
86-000466
86-001538
86-001545
86-002589
86-002612
86-004095
rDNA
86-001543
RNA
86-002598
Selective Breeding
86-000024
86-002039
86-004106
86-004112
Social Behavior
86-002592
Speciation
86-000442
86-001771
86-003684
86-004104
86-004114
86-004119
86-004124

...CONTINUED...
Genetics
Speciation
86-004145
86-004156
86-004719
86-004815
86-004816
86-004830
86-004831
86-004859
86-004870
86-004871
86-004874
86-004885
86-004898
86-004913
Spinal Deformities
86-002604
Techniques/Chromosome Preparation
86-002587
Techniques/Isoelectric Focusing
86-002626
Techniques/Ploidy Levels
86-004096
86-004115
86-004155
Transferrin
86-004150
Triploid Fish
86-000004
86-000047
86-000451
86-000452
86-001526
86-001540
86-002586
86-002617
86-002618
86-003812
86-004098
86-004105
Unisex Populations
86-001536
86-001638
86-001652
86-002050
86-004089
86-004439
Variation Studies
86-000156
86-000439
86-000441
86-000446
86-000450
86-000458
86-000460
86-000462
86-000463
86-000842
86-001533
86-001534
86-001535
86-001545
86-001546
86-001552
86-001783
86-002274
86-002591
86-002597
86-002598
86-002607
86-002609
86-002613
86-002623

...CONTINUED...
Genetics
Variation Studies
86-002625
86-002627
86-003693
86-004089
86-004099
86-004107
86-004111
86-004121
86-004128
86-004131
86-004135
86-004148
86-004151
86-004152
86-004153
86-004154
86-004157
86-004343
Habitat Alterations
Aeration
86-005391
Agricultural Drainage
86-003196
Aquatic Plant Control
86-005580
Artificial Reefs
86-000719
86-001067
86-001068
86-001069
86-001070
86-001071
86-001074
86-001075
86-001076
86-001077
86-001078
86-001079
86-001080
86-001082
86-001083
86-001084
86-001085
86-001086
86-001087
86-001088
86-001089
86-001091
86-001094
86-001095
86-001096
86-001098
86-001099
86-001100
86-001101
86-001102
86-001103
86-001104
86-001107
86-001108
86-001109
86-001110
86-001112
86-001113
86-001114
86-001115
86-001117
86-001118
86-001119
86-001120
86-001121
86-001123
86-001125

...CONTINUED...
Habitat Alterations
Artificial Reefs
86-001126
86-001127
86-001128
86-001129
86-001131
86-001133
86-001134
86-001136
86-001137
86-001948
86-003181
86-003183
86-003185
86-003187
86-003192
86-003198
86-003199
86-003200
86-003202
86-003203
86-005409
Bank Revetment
86-005403
Barge Traffic
86-005392
Channelization
86-003190
86-005398
86-005413
86-005417
Clearcutting
86-005378
86-005382
86-005400
86-005401
Clearing and Snagging
86-001236
86-001999
86-003312
Culverts
86-005399
Dams
86-001124
86-001947
86-001950
86-001952
86-001998
86-003372
86-005375
86-005376
86-005383
86-005496
Dredging
86-001130
86-003195
86-005380
86-005393
86-005399
86-005400
86-005414
86-005417
Eutrophication
86-005418
Flow Regimes
86-000532
86-000536
86-000552
86-000562
86-001093
86-001244
86-001946
86-001949
86-005377

...CONTINUED...
Habitat Alterations
Flow Regimes
86-005383
86-005402
86-005415
86-005496
86-005584
Forestry Practices
86-001073
86-003186
86-003189
86-003197
86-005378
86-005379
86-005382
86-005386
86-005387
86-005390
86-005396
86-005400
86-005401
86-005402
86-005405
86-005410
86-005412
86-005419
86-005421
86-005592
General
86-001998
86-003188
86-005374
86-005389
86-005397
86-005413
86-005416
86-005420
Gravel Mines
86-005407
Grazing
86-001072
86-001092
86-001097
86-001111
86-001116
86-001122
86-001243
86-001245
86-001246
86-001996
86-003194
86-005385
86-005400
Heat Exchangers
86-005395
Impoundment
86-003184
86-004638
86-005375
86-005376
86-005383
86-005413
86-005417
86-005618
Irrigation Projects
86-001596
Land Use Practices
86-001235
86-001985
86-001996
86-005406
Logging Residue
86-005387
Management/Research--Rivers and Streams
86-001998

...CONTINUED...
Habitat Alterations
Midwater Structures
86-001106
86-001135
Mining
86-001130
86-003058
86-005407
Mosquito Control
86-001951
86-003201
Offshore Drilling
86-000735
86-001087
86-001088
86-001129
86-001953
Power Plants
86-001945
86-001950
86-001952
86-003182
86-005538
Pumped Storage
86-005408
Reservoir Release Effects
86-001081
86-001949
86-005383
86-005496
Riparian Habitat
86-001072
86-001092
86-001097
86-001105
86-001111
86-001116
86-001122
86-001243
86-001245
86-001246
86-001248
86-001996
86-003193
86-003194
86-005385
Salinization
86-005418
Shoreline Development
86-001090
Spawning Habitat Restoration
86-005595
86-005596
Stream Improvement/General
86-001245
86-003191
86-005381
86-005394
Tidal Power Development
86-001945
86-005384
Urban Development
86-005411
86-005418
Water Diversions
86-001233
86-001237
86-001738
86-005377
86-005415
86-005418
Water Level Fluctuations
86-001132
86-005399
86-005575

...CONTINUED...
Habitat Alterations
Water Level Fluctuations
86-005576
86-005577
86-005611
86-005618
Wetland Drainage
86-005404
Invertebrates
Acartia tonsa
86-002129
Acid Precipitation
86-005162
86-005214
Acidification
86-005162
86-005214
Acrylamide
86-003117
Arsenic
86-005307
Brachionus calyciflorus
86-002032
Cadmium
86-005262
Copepoda
86-003659
86-003663
86-003664
Crayfish
86-004528
Culture/Propagation
86-002032
DMF
86-005303
Flocculants
86-003091
Flow Regimes
86-002206
Forage Introductions
86-005469
Heavy Metals
86-005262
86-005307
Lampricides
86-005281
Methanol
86-005303
Mine Effluents
86-000972
Mysis relicta
86-003244
86-003662
86-005469
Oil
86-001015
Oil Shale Effluents
86-001037
Orconectes
86-003646
pH
86-000979
Piscicides
86-005281
Placer Mining
86-000972
Plecoptera
86-003644
Predator/Prey Relationships
86-000663
86-001668
86-002772
86-004602
Sodium Pentachlorophenate
86-005262

...CONTINUED...
Invertebrates
Solvents
86-005303
Synthetic Polyelectrolytes
86-003091
TFM
86-003167
86-005281
Limnology
Acidification
86-005154
86-005163
Algae
86-002210
Alkalinity
86-001303
Bacteria
86-002207
Benthos
86-001345
86-002205
86-003643
86-003644
86-003646
86-003647
Benthos/Drift
86-000122
86-003645
Carbon
86-002201
Chemical
86-002204
86-003637
86-003642
Decomposition
86-003618
Eutrophication
86-002197
86-002197
86-005184
Gas Supersaturation
86-003628
General
86-000118
86-001249
86-005578
Great Lakes
86-001342
Light Extinction
86-005391
Modeling
86-003637
Nutrient Control
86-005574
Nutrients
86-000120
86-000123
86-001347
86-002202
86-003626
86-003629
86-003631
86-003632
86-003633
86-003634
86-003635
86-003638
86-003640
86-003641
86-003648
86-003649
86-003652
86-003653
86-003657
86-003668

...CONTINUED...
Limnology
Nutrients
86-003669
86-003670
86-003674
Organic Matter
86-005419
Oxygen
86-000121
86-003627
Paleolimnology
86-002197
Periphyton
86-003671
pH
86-000953
86-003625
Phosphorus
86-000120
86-002202
86-003629
86-003631
86-003632
86-003633
86-003634
86-003635
86-003638
86-003640
86-003648
86-003649
86-003652
86-003653
86-003657
86-003668
86-003669
86-003670
Phytoplankton
86-000025
86-000123
86-002208
86-002212
86-003650
86-003652
86-003655
86-003668
86-003674
Plankton
86-002209
86-003632
86-003634
86-003640
86-003648
86-003653
86-003657
86-003667
86-003669
86-003670
Primary Production
86-001347
86-002214
86-002215
Salinity
86-003639
Seston
86-003618
Silica
86-003638
Techniques/Mapping
86-000116
Techniques/Thermal Studies
86-002200
Techniques/Water Velocities
86-003624
Techniques/Zooplankton
86-001346

...CONTINUED...
Limnology
Transparency
86-000119
86-002198
Trophic Relationships
86-002209
86-002719
86-003674
Trophic Status
86-003666
Turbidity
86-002198
86-002199
Zooplankton
86-002213
86-003649
86-003651
86-003656
86-003659
86-003661
86-003672
86-003673
86-004614
86-004755
86-005162
Management/Research--Estuaries
Chesapeake Bay
86-001251
86-003313
86-005621
Creel Census
86-001962
Freshwater Inflows
86-000788
General
86-001251
86-001252
86-001253
86-001254
86-001741
86-004675
86-005622
86-005623
Mosquito Control
86-003201
Population Studies
86-003314
Management/Research--General
Africa
86-003173
86-005357
Africa, Southern
86-005348
Alaska
86-005366
Artificial Reefs
86-001070
86-001114
86-001123
86-001131
Biographies/Jack A. Ward
86-003176
Commercial Fishing
86-001144
86-001936
86-005426
Community Fishery Centers
86-001936
Creel Census
86-001143
86-001152
86-003219
Data Bases
86-005701
Economic Values
86-001144
...CONTINUED...
Management/Research--General
Economic Values
86-001146
86-005334
86-005429
86-005440
86-005441
Educational Program
86-005351
Environmental Impact Assessments
86-005339
Fisherman Surveys
86-001147
86-001955
86-001961
86-003209
86-003211
86-003221
86-005432
86-005441
Fisherman Surveys/Canada:
Ontario
86-001140
Fishing Tournaments
86-001046
86-001055
86-001143
86-005350
86-005365
Florida
86-001056
Flow Regimes
86-001933
Forecasting
86-001610
86-003276
86-005335
General
86-001045
86-001049
86-001053
86-001054
86-001061
86-001062
86-001063
86-001064
86-001938
86-003171
86-003172
86-003175
86-003221
86-005351
86-005354
86-005358
86-005368
Habitat Evaluation
86-001933
86-001942
86-003174
86-003299
Habitat Protection
86-005359
Habitat Rating Systems
86-001942
86-003174
Harvest
86-001282
86-001959
86-003219
86-005426
Hooking Mortality
86-000375
86-001055
86-001169
86-005606

...CONTINUED...
Management/Research--General
Idaho
86-005441
Indian Treaty Rights
86-001044
86-001050
Indonesia
86-003383
Information Systems
86-005340
86-005347
86-005353
86-005704
86-005710
86-005722
Jurisdiction
86-005368
Litter
86-001935
Malaysia
86-003383
Mitigation
86-001058
Multiple Use
86-005341
Planning
86-001060
86-001061
86-001062
86-001063
86-001064
86-001065
86-001942
86-003180
Professionalism
86-001051
86-001940
86-005352
86-005369
Regulations/Catch and Release
86-001964
86-005442
86-005443
86-005447
86-005454
Regulations/General
86-001155
86-001961
86-001963
86-003223
86-005452
86-005454
Regulations/Size Limits
86-005454
Riparian Habitat
86-001243
Social Values
86-001939
Thailand
86-003383
United States
86-001938
Wild Trout Management
86-005334
86-005343
86-005440
86-005468
Management/Research--Lakes
Africa: Lake Victoria
86-001047
Alberta: Cold Lake
86-001990
Alberta: Edmonton
86-001991
Alberta: Gull Lake
86-001989

...CONTINUED...
Management/Research--Lakes
Aquatic Plant Control
86-005580
Artificial Reefs
86-001080
86-001101
86-001102
86-001103
86-001115
Canada: Manitoba: Lake Winnipeg
86-003286
Colorado: Emerald Lakes
86-001992
Commercial Fishing
86-001217
86-001218
86-001229
86-001993
86-003280
86-003283
86-005184
Creel Census
86-003207
86-003217
86-005435
86-005437
Economic Values
86-001229
86-005423
Egypt: Lake Brollus
86-003285
Eutrophication
86-001216
86-001219
86-002197
86-003281
86-005184
86-005571
Exploitation Rates
86-003288
Fisherman Surveys
86-003207
86-005435
General
86-003286
86-004223
Great Lakes
86-000641
86-001101
86-001102
86-001208
86-001217
86-001218
86-001221
86-001223
86-001965
86-001988
86-003217
86-003282
86-003289
86-005572
86-005579
Harvest
86-003280
86-003283
86-003288
86-004352
86-005435
Lamprey Control
86-003282
Law Enforcement
86-001988
Nigeria: Lake Kainji
86-003280
Nutrient Control
86-003287

...CONTINUED...
Management/Research--Lakes
Nutrient Control
86-005574
Population Studies
86-000580
86-000800
86-001219
86-001609
86-001751
86-001761
86-001993
86-002710
86-003280
86-003286
86-003288
86-003289
86-004307
86-004352
86-004381
86-005580
Production
86-001226
86-001230
Pulse Fishing
86-003288
Regulations/Size Limits
86-001227
Saline Lakes
86-003284
Salton Sea
86-001220
Shoreline Development
86-001090
Stocking/Introductions
86-001168
86-002710
86-003246
86-005470
86-005478
86-005479
86-005579
Trophic Relationships
86-000669
Water Level Fluctuations
86-001744
86-005575
86-005576
86-005577
Winterkill
86-001754
Yield
86-001226
86-001230
86-004352
Management/Research--Marine
Access
86-003279
Administration
86-003177
86-003179
86-005668
Administrative Reports
86-001066
Artificial Reefs
86-000719
86-001067
86-001068
86-001069
86-001071
86-001074
86-001075
86-001076
86-001077
86-001078
86-001079

...CONTINUED...
Management/Research--Marine
Artificial Reefs
86-001082
86-001083
86-001084
86-001085
86-001086
86-001087
86-001088
86-001089
86-001091
86-001094
86-001095
86-001096
86-001098
86-001099
86-001100
86-001104
86-001107
86-001108
86-001109
86-001110
86-001112
86-001113
86-001117
86-001118
86-001119
86-001120
86-001121
86-001125
86-001126
86-001127
86-001128
86-001129
86-001133
86-001134
86-001136
86-001137
86-001948
86-002802
86-003181
86-003183
86-003185
86-003187
86-003192
86-003198
86-003199
86-003200
86-003202
86-003203
86-005409
Artisanal Fisheries
86-005650
86-005661
86-005682
Atlantic Ocean
86-001262
86-001263
Atlantic Ocean, North
86-002004
86-005639
86-005675
Australia
86-005624
Bering Sea
86-004750
86-005625
86-005640
California: Humboldt Bay
86-005673
86-005688
Caribbean Sea
86-005682
Commercial Fishing
86-001267

...CONTINUED...
Management/Research--Marine
Commercial Fishing
86-001268
86-001954
86-003204
86-003205
86-003206
86-003216
86-003342
86-004758
86-005625
86-005642
86-005644
86-005645
86-005648
86-005658
86-005662
86-005669
86-005685
86-005686
Creel Census
86-003205
86-003214
86-003215
86-003222
86-003342
86-005428
Economic Values
86-001268
86-001954
86-005633
86-005645
86-005659
Environmental Impact Assessments
86-005666
Europe
86-005647
Exploratory Fishing
86-003315
86-005670
86-005681
Expoitation Rates
86-005625
Fisherman Surveys
86-001145
86-003208
86-003214
86-003222
86-003317
86-005425
86-005427
86-005428
Fishery Cooperatives
86-005676
Forecasting
86-002008
86-003324
86-003329
General
86-001204
86-001252
86-001257
86-001258
86-001259
86-001260
86-001261
86-001262
86-001263
86-001265
86-001619
86-002004
86-002005
86-003072
86-003177
86-003316

...CONTINUED...
Management/Research--Marine
General
86-003317
86-003318
86-003319
86-003320
86-003322
86-003323
86-003325
86-003326
86-003328
86-003330
86-003331
86-003332
86-003333
86-003335
86-003338
86-003340
86-003341
86-003344
86-003345
86-003348
86-003349
86-003350
86-003351
86-003352
86-003353
86-003355
86-004750
86-005559
86-005628
86-005629
86-005631
86-005632
86-005634
86-005635
86-005636
86-005638
86-005639
86-005640
86-005641
86-005643
86-005646
86-005647
86-005648
86-005649
86-005652
86-005655
86-005657
86-005659
86-005661
86-005662
86-005663
86-005665
86-005668
86-005674
86-005675
86-005678
86-005679
86-005680
86-005687
86-005688
86-005689
General/Japan
86-005654
Gulf of Mexico
86-005657
Habitat Alterations
86-003188
Harvest
86-001150
86-001194
86-001960
86-002009
86-002011

...CONTINUED...
Management/Research--Marine
Harvest
86-003204
86-003206
86-003212
86-003216
86-003337
86-003342
86-005439
86-005642
86-005644
86-005670
86-005682
Hawaii
86-004340
86-005645
86-005646
86-005648
86-005655
86-005659
86-005662
86-005668
86-005674
86-005686
Indian Ocean
86-001260
86-001261
86-005631
86-005634
86-005637
Jurisdiction
86-001157
86-002012
86-003316
86-003318
86-003321
86-003331
86-003346
86-005626
86-005641
86-005652
86-005664
86-005684
Kuwait
86-000054
Law Enforcement
86-005449
Law of the Sea
86-005626
Management Decisions
86-003335
Maximum Sustainable Yield
86-005672
Mediterranean Sea
86-005643
Midwater Structures
86-001106
86-001135
Mitigation
86-001084
Modeling
86-005559
New Jersey
86-003336
New Jersey: Raritan Bay
86-003337
86-003339
86-003354
New Zealand
86-005624
Offshore Drilling
86-001953
Pacific Ocean
86-005628
86-005631

...CONTINUED...
Management/Research--Marine
Population Studies
86-000577
86-002008
86-002862
86-003356
86-004340
86-004758
86-005662
Production
86-000568
86-000570
Reef Fish Communities
86-005627
Regulations/Fishing Gear
86-005490
Regulations/General
86-005446
86-005451
86-005660
Regulations/Quotas
86-005448
Social Values
86-005633
South China Sea
86-005636
Stocking/Introductions
86-003238
Management/Research--Ponds
Aeration
86-005391
Aquatic Plant Control
86-000001
Fertilization/Soil and Water
86-001195
Fish Control/Removal
86-001158
86-003308
86-005455
General
86-003309
Population Studies
86-001249
86-001613
86-003362
Regulations/Size Limits
86-003306
Stocking/Introductions
86-003235
86-003307
86-005467
Water Level Fluctuations
86-005611
Winterkill
86-005612
Management/Research--Reservoirs
Clearing and Snagging
86-001999
86-003312
Commercial Fishing
86-005434
Creel Census
86-003220
86-005422
86-005424
86-005434
Drawdowns
86-001132
Fertilization/Soil and Water
86-001195
Fish Control/Removal
86-001158
Fisherman Surveys
86-005422
86-005619

...CONTINUED...
Management/Research--Reservoirs
General
86-005613
86-005614
Harvest
86-005434
India: Bhavanisagar Reservoir
86-005617
India: Nagarjunasagar Reservoir
86-005616
India: Rihand Reservoir
86-005615
Population Studies
86-003310
86-003312
86-005618
Pre-Impoundment Studies
86-005619
Reservoir Release Effects
86-001093
86-003372
Standing Timber
86-003312
Stocking/Introductions
86-000722
86-001170
86-001175
86-001250
86-003234
86-003239
86-005620
Tailwaters
86-003301
Two-Story Fisheries
86-003311
Water Level Fluctuations
86-005618
Zimbabwe
86-005614
Management/Research--Rivers and Streams
Abundance/Factors of
86-004771
86-004781
Artisanal Fisheries
86-005431
Channelization
86-005398
Cienegas
86-005600
Clearing and Snagging
86-001236
Commercial Fishing
86-001240
Creel Census
86-001142
86-001149
86-001153
86-001172
86-001242
86-002848
86-003210
86-003213
86-003218
86-005438
86-005453
86-005593
Dredging
86-005393
86-005414
Economic Values
86-001153
Exploitation Rates
86-001242
Fish Control/Removal
86-003127
...CONTINUED...
Management/Research--Rivers and Streams
Fisherman Surveys
86-003210
86-005430
Florida: St. Johns River
86-003295
Flow Regimes
86-001093
86-001233
86-001244
86-001946
86-001949
86-003296
86-003302
86-003372
86-005383
86-005496
86-005584
86-005587
86-005598
General
86-001239
86-001241
86-001997
86-001998
86-003304
86-005588
86-005593
86-005597
86-005607
Habitat Alterations
86-000499
86-001998
86-003196
86-005375
86-005376
86-005383
86-005393
86-005403
86-005407
86-005410
86-005414
86-005496
Habitat Evaluation
86-001234
86-001238
86-003297
86-003299
Habitat Improvement/General
86-005388
Habitat Rating Systems
86-003291
86-003297
Harvest
86-001994
86-005431
Land Use Practices
86-005406
Multiple Use
86-003300
Population Studies
86-000582
86-000588
86-000796
86-000806
86-001603
86-001608
86-001994
86-002731
86-002848
86-002860
86-002869
86-002874
86-003294
86-003298

...CONTINUED...
Management/Research--Rivers and Streams
Population Studies
86-004338
86-004347
86-004380
86-004383
86-004747
86-004753
86-004775
86-005582
86-005583
86-005608
Pre-Impoundment Studies
86-005599
Put-and-Take
86-001172
Recreational Benefits
86-005430
Regulations/Catch and Release
86-005450
86-005453
86-005606
Regulations/General
86-005445
Regulations/Size Limits
86-001156
86-005444
Reservoir Release Effects
86-001081
86-001093
86-001949
86-005383
86-005496
Restoration of Anadromous Runs
86-003292
86-003293
86-005609
Riparian Habitat
86-001072
86-001092
86-001097
86-001105
86-001111
86-001116
86-001122
86-001235
86-001243
86-001245
86-001246
86-001248
86-001996
86-002886
86-003194
86-003305
86-005592
River Jordan
86-001995
Sedimentation
86-003290
Spawning Channels
86-005610
Spawning Habitat Restoration
86-005595
86-005596
Stocking/Introductions
86-001172
86-001968
86-002824
86-003252
86-005488
Stream Improvement/General
86-001245
86-003191
86-005381
86-005394

...CONTINUED...
Management/Research--Rivers and Streams
Stream Improvement/General
86-005590
Supplemental Stocking
86-001968
Tailwaters
86-003301
Trout Stream Management
86-001232
86-001242
86-003193
86-005388
86-005594
86-005601
86-005604
Water Diversions
86-001237
Wild Trout Management
86-005488
86-005604
Modeling
Age/Growth
86-000718
86-004357
86-004643
Bioassay Techniques
86-005284
Bioenergetics
86-001976
Biomass
86-003273
Catch per Unit Effort
86-001214
86-003275
Culture/Propagation
86-001279
86-002037
86-003454
86-003513
Economic Values
86-001229
86-005543
Ecosystems
86-001213
86-005559
Egg Production
86-000583
Exploitation Rates
86-001980
86-001982
86-005555
Fisheries
86-001202
86-001980
86-001982
86-003271
86-004761
86-005542
86-005548
86-005549
Foods/Feeding
86-001210
86-004495
86-004585
Forecasting
86-005335
Game Theory
86-005554
General
86-005566
Harvest
86-001980
86-001982
86-005545
86-005551

...CONTINUED...
Modeling
Land Use Practices
86-001985
Limnology
86-003637
Management/Research--General
86-001211
Management/Research--Lakes
86-001208
86-001223
86-001224
Management/Research--Marine
86-001269
Management/Research--Rivers and Streams
86-003299
Maximum Sustainable Yield
86-005630
Mortality Rates
86-005547
Movements
86-001212
86-005556
Nonlinear Mapping
86-003278
Optimum Yield
86-005549
Pollution
86-001987
Population Studies
86-000565
86-000583
86-001206
86-001269
86-002729
86-002731
86-003272
86-003273
86-004310
86-004328
86-004338
86-004352
86-004357
86-005284
86-005546
86-005550
86-005552
86-005558
86-005561
86-005562
Population Thinning
86-005550
Production
86-005570
Regulations
86-003223
Risk Analysis
86-005541
Search Problems
86-005560
Stock Reduction Analysis
86-001979
Stock-Production
86-005555
Stock-Recruitment
86-001207
86-001209
86-001981
86-001986
86-003276
86-004337
86-004368
86-005544
86-005564
86-005565

...CONTINUED...
Modeling
Toxicology
86-005108
86-005312
Virtual Population Analyses
86-005561
von Bertalanffy Growth Function
86-005563
Yield
86-001978
86-005567
86-005569
Morphology
Abnormalities
86-002241
86-003708
86-003781
86-003784
Acoustico-Lateralis System
86-000179
86-001368
86-002262
86-003703
86-003762
Alarm Cells
86-004043
86-004044
Albinism
86-000171
Ampullary System
86-003779
Auditory Senses
86-000158
Blood
86-002270
86-002394
Body Form
86-000168
86-000173
86-001391
86-001392
86-003771
86-004175
Body-Scale Relationship
86-003747
Brain
86-003763
86-003764
86-003790
86-003807
Branchial Basket
86-000143
Cardio-Vascular System
86-000135
86-000140
86-001350
86-002271
86-003757
86-003773
86-003777
Chloride Cells
86-000152
86-002247
Cloacal Gland
86-000175
Coloration
86-000145
86-000478
86-000619
86-000829
86-001388
86-002280
86-003793
86-003797
86-004159

...CONTINUED...
Morphology
Dentition
86-000150
86-001365
86-001385
86-002260
86-003692
86-004619
Digestive System
86-000271
86-001367
86-001370
86-001373
86-001379
86-003699
86-003723
86-003785
86-003811
Dwarfism
86-001225
86-001683
86-003729
Early Development
86-000050
86-000137
86-000138
86-000144
86-000149
86-000153
86-000154
86-000160
86-000169
86-000177
86-000178
86-000496
86-001300
86-001354
86-001358
86-001359
86-001361
86-001362
86-001372
86-001380
86-001382
86-001383
86-001384
86-001389
86-001741
86-002219
86-002221
86-002235
86-002236
86-002261
86-002283
86-002746
86-003676
86-003677
86-003678
86-003679
86-003691
86-003694
86-003695
86-003699
86-003705
86-003706
86-003707
86-003730
86-003734
86-003735
86-003736
86-003744
86-003746
86-003747
86-003748
86-003752

...CONTINUED...
Morphology
Early Development
86-003753
86-003756
86-003758
86-003759
86-003762
86-003766
86-003774
86-003782
86-003788
86-003789
86-003791
86-003794
86-003795
86-003796
86-003808
86-003809
86-003813
86-004056
86-004236
86-004264
86-004394
86-004489
86-004782
86-004783
86-004785
86-004786
86-004795
86-004797
86-004806
86-004808
86-004810
86-004811
86-004812
86-004813
86-004819
86-004826
86-004827
86-004829
86-004834
86-004841
86-004842
86-004843
86-004850
86-004851
86-004852
86-004853
86-004855
86-004857
86-004858
86-004861
86-004862
86-004866
86-004867
86-004868
86-004872
86-004873
86-004878
86-004881
86-004886
86-004887
86-004900
86-004901
86-004905
86-004908
86-004909
86-004910
Egg Size
86-000567
86-001380
86-001472
86-002228
86-002229
86-004404

...CONTINUED...
Morphology
Egg Size
86-004425
Eggs
86-000142
86-000153
86-000170
86-001363
86-001372
86-002216
86-002238
86-002248
86-002256
86-002266
86-002899
86-003697
86-003731
86-003738
86-003783
86-004170
86-004236
86-004264
86-005716
Electric Organs
86-000174
86-003704
Embryology
86-000050
86-000053
86-000131
86-000133
86-000139
86-000146
86-000152
86-000159
86-000297
86-001300
86-001353
86-001374
86-001381
86-001440
86-001647
86-002218
86-002219
86-002221
86-002240
86-002244
86-002275
86-003694
86-003695
86-003712
86-003739
86-003748
86-003752
86-003755
86-003774
Endocrinology
86-000139
86-001355
86-002223
86-003817
Ependyma
86-003741
Epidermis
86-003815
Excretory System
86-000128
86-002232
86-002237
Fin Rays
86-000716
Fins
86-002268
86-003711
86-003735

...CONTINUED...
Morphology
Fins
86-003740
86-003784
Fish Preservation
86-002252
Gap Junction
86-000141
General
86-001762
Gill Rakers
86-003806
Gills
86-000130
86-000143
86-000151
86-001364
86-001390
86-002243
86-002258
86-002733
86-003724
86-003745
Gonosomatic Index
86-002761
Head Kidney
86-001386
Heart
86-000135
86-003700
Histology
86-001375
Integument
86-004083
86-004084
Kidney
86-002232
86-002237
Liver
86-002234
86-002288
86-003702
86-003721
Locomotion
86-003809
Melanophores
86-001371
86-002263
86-002267
Meristic Studies
86-000124
86-000126
86-000127
86-000136
86-000155
86-000157
86-000162
86-000165
86-000180
86-000459
86-000842
86-001366
86-001552
86-001714
86-001863
86-002217
86-002228
86-002239
86-002245
86-002257
86-002274
86-002832
86-002901
86-003684
86-003687

...CONTINUED...
Morphology
Meristic Studies
86-003693
86-003720
86-003737
86-003749
86-003775
86-003787
86-003800
86-003806
86-003810
86-004117
86-004148
86-004544
86-004884
Metamorphosis
86-004650
Mouth Parts
86-000150
86-000835
86-001352
86-001376
86-001377
86-001675
86-001770
86-002222
86-002230
86-002253
86-002277
86-003714
86-003715
86-003716
86-003726
86-003768
86-003769
86-003770
86-003798
86-004567
86-004594
86-004608
Musculature
86-000149
86-000181
86-001562
86-002898
86-003680
86-003685
86-003686
86-003716
Nervous System
86-000125
86-000164
86-000172
86-001350
86-001368
86-002267
86-002281
86-002284
86-002285
86-002286
86-003682
86-003683
86-003704
86-003728
86-003741
86-003755
86-003763
86-003764
86-003773
86-003790
86-003801
86-003807
Neuromasts
86-002254
Nuptial Tubercles
86-003732

...CONTINUED...
Morphology
Nuptial Tubercles
86-003793
Olfaction
86-000145
86-000166
86-002278
86-002284
86-003713
86-003715
86-003778
86-003802
Otoconia
86-003709
Otoliths
86-000163
86-000511
86-000723
86-000733
86-000734
86-000740
86-000741
86-002224
86-002252
86-002265
86-002475
86-003689
86-003710
86-003799
86-003896
86-004446
Pancreas
86-003681
Pigments
86-000167
86-001388
86-002256
86-002263
86-002264
86-003765
86-003786
Pituitary
86-000132
86-000148
86-000336
86-002220
86-002225
Polymorphism
86-001394
Rectal Gland
86-002259
Reproductive System
86-000142
86-000147
86-002233
86-002255
86-002261
86-002743
86-002751
86-003750
86-003812
86-003994
86-003998
Respiratory System
86-002258
86-003724
86-003725
86-003751
86-003760
86-003761
Rodlet Cells
86-001375
Scales
86-000720
86-000728

...CONTINUED...
Morphology
Scales
86-000742
86-001369
86-002227
86-002279
86-003690
86-003747
86-003780
86-003792
86-004088
86-004803
Sexual Dimorphism
86-000175
86-000597
86-001360
86-002276
86-003754
86-003805
86-004158
86-004641
Skeletal System
86-000129
86-000176
86-001356
86-001357
86-002249
86-002250
86-002269
86-002891
86-003692
86-003698
86-003718
86-003726
86-003727
86-003733
86-003767
86-003772
86-003803
86-004799
Sperm
86-000142
86-003743
Swimbladder
86-002226
86-003361
Taste Reception
86-002277
Techniques/Fin Ray Counts
86-003722
Techniques/Microscopy
86-003688
Techniques/Radiography
86-003804
Techniques/Skeletal Staining
86-003776
Techniques/Tissue Staining
86-003717
Thyroid
86-003742
Variation Studies
86-000126
86-000127
86-000136
86-000156
86-000162
86-000180
86-000829
86-001351
86-001366
86-001391
86-001714
86-002216
86-002250
86-002257

...CONTINUED...
Morphology
Variation Studies
86-002890
86-003684
86-003687
86-003749
86-003798
86-003810
86-004884
Vision
86-001378
86-001387
86-002231
86-002242
86-002251
86-002272
86-002281
86-002286
86-002287
86-003696
86-003701
86-003719
86-003816
Natural History
Abundance/Factors of
86-000570
86-000587
86-000764
86-000787
86-000788
86-000794
86-000795
86-000806
86-000808
86-001349
86-001744
86-001745
86-001747
86-001750
86-001758
86-001759
86-001761
86-002856
86-002887
86-004338
86-004383
86-004745
86-004747
86-004750
86-004753
86-004756
86-004757
86-004758
86-004769
86-004770
86-004771
86-004775
86-004778
86-004781
86-005583
Biomass
86-004747
Bird Predation
86-000482
86-000711
86-001746
86-002889
86-004508
86-004773
Distribution/Factors of
86-000645
86-000754
86-000756
86-000757
86-000767

...CONTINUED...
Natural History
Distribution/Factors of
86-000773
86-000783
86-001734
86-001742
86-002847
86-002856
86-002869
86-002874
86-004440
86-004682
86-004688
86-004707
86-004716
86-004732
86-004734
86-005585
Distribution/Geographical
86-000762
86-002854
Distribution/Seasonal
86-000645
86-002738
86-002845
86-002847
86-002862
86-004464
Distribution/Vertical
86-000641
86-001653
86-004449
86-004464
86-004477
Egg Drift
86-004732
Egg Predation
86-001756
86-002266
86-004749
Egg Survival
86-000789
86-001753
86-002221
86-004768
Evolution
86-000836
86-001771
86-003684
86-004114
86-004119
86-004124
86-004145
86-004273
86-004719
86-004798
86-004815
86-004816
86-004824
86-004828
86-004830
86-004831
86-004859
86-004865
86-004870
86-004871
86-004874
86-004885
86-004893
86-004898
86-004913
Extinction
86-004865
Fish Stocks
86-000163

...CONTINUED...
Natural History
Fish Stocks
86-000459
86-000567
86-000584
86-000590
86-001394
86-002221
86-002718
86-003787
86-004320
86-004325
86-004745
Foods/Feeding
86-000651
86-000709
86-001666
86-001671
86-001679
86-002780
86-002794
86-002802
86-004482
86-004489
86-004513
86-004558
86-004586
86-004606
86-004614
Foods/Feeding/Selectivity
86-001693
Hatching Success
86-000802
Ichthyoplankton
86-004464
86-004742
Identification/Larvae
86-001780
Invertebrate Predation
86-000697
86-000712
Landlocked Populations
86-001606
Larval Drift
86-002767
86-004456
Length-Weight Relationships
86-004657
Life History/General
86-000542
86-001594
86-004233
86-004236
86-004264
86-004273
Mammal Predation
86-002877
86-004777
Mortality Factors
86-000697
86-000808
86-004508
Mortality Rates
86-000808
86-002740
86-004321
86-004334
Movements
86-001653
86-004472
86-004716
Nomenclature
86-004860
Nursery Areas
86-004471

...CONTINUED...
Natural History
Nutrient Control
86-003626
Paleontology
86-000785
86-000815
86-000820
86-001770
86-001785
86-002902
86-004817
Population Studies
86-000574
86-000577
86-000580
86-000585
86-000794
86-001619
86-001744
86-001761
86-002712
86-002725
86-002732
86-002738
86-002740
86-002742
86-002847
86-002856
86-002885
86-004303
86-004309
86-004310
86-004321
86-004327
86-004332
86-004333
86-004341
86-004355
86-004360
86-004366
86-004373
86-004378
86-004383
86-004384
86-004758
86-004769
86-005583
86-005585
Predator/Prey Relationships
86-000474
86-000481
86-000482
86-000656
86-000663
86-000667
86-000670
86-000679
86-000687
86-000692
86-000697
86-000712
86-000800
86-000809
86-000919
86-001668
86-001671
86-001672
86-001690
86-001691
86-002635
86-002661
86-002772
86-002775
86-002783
86-002787

...CONTINUED...
Natural History
Predator/Prey Relationships
86-002790
86-002799
86-002804
86-002809
86-002877
86-004183
86-004186
86-004480
86-004481
86-004493
86-004501
86-004514
86-004536
86-004547
86-004564
86-004571
86-004576
86-004602
86-004609
86-004610
86-005578
Production
86-000579
86-000580
86-000587
86-000787
86-004309
86-004321
86-004335
86-004378
86-004385
Recruitment
86-001745
Reef Fish Communities
86-001622
86-001626
86-002740
86-002741
86-002780
86-004303
86-004304
86-004317
86-004340
86-004369
86-004377
86-004550
86-004551
Resource Partitioning
86-002795
Sex Ratios
86-002554
Spawning
86-004420
Speciation
86-004859
Standing Crops
86-000580
Taxonomy
86-000785
86-001779
86-002891
86-003684
86-004114
86-004124
86-004145
86-004236
86-004719
86-004805
86-004815
86-004816
86-004830
86-004831
86-004859

...CONTINUED...
Natural History
Taxonomy
86-004870
86-004871
86-004874
86-004885
86-004898
86-004911
86-004913
Trophic Relationships
86-000120
86-000497
86-000667
86-000669
86-000674
86-000679
86-000681
86-000690
86-000709
86-000719
86-000757
86-000773
86-001664
86-001690
86-001750
86-002719
86-002784
86-003674
86-004286
86-004382
86-004481
86-004501
86-004507
86-004512
86-004524
86-004538
86-004550
86-004551
86-004556
86-004561
86-004565
86-004574
86-004601
86-004611
86-004615
Year Class Strength
86-002887
Zoogeography
86-000754
86-000762
86-000771
86-001742
86-004693
86-004694
86-004719
86-004735
Oceanography
Currents
86-001341
86-001344
El Nino
86-001348
86-003619
General
86-001758
86-004750
86-004757
General/Black Sea
86-003617
Hypoxia
86-002203
Information Systems
86-003615
86-003616
86-003620

...CONTINUED...
Oceanography
Nutrients
86-001341
86-003636
86-003654
86-003665
Oxygen
86-002203
86-003630
Phosphorus
86-003636
86-003654
86-003665
Phytoplankton
86-003654
86-003665
Plankton
86-002211
86-003660
Primary Production
86-001349
86-003675
Secondary Production
86-004385
Temperature
86-001344
86-003621
86-003622
86-003623
Upwelling
86-001343
86-001349
Zooplankton
86-003658
86-003663
86-003664
Parasites/Diseases
Abnormalities
86-002604
86-005080
Acanthobothrium
86-005087
Acanthocephala
86-000852
86-000933
86-000935
86-001838
86-001842
86-002999
86-003003
86-005076
86-005084
86-005095
86-005114
86-005141
Acanthocephaloides geneticus
86-005095
Acariasis
86-005099
Acute Inflammatory Response
86-000934
Adenoviridiidae
86-000899
Adenovirosis
86-005050
Aeromonas
86-000868
86-004944
86-004992
Aeromonas hydrophila
86-000866
86-001805
86-001808
86-002941
86-002945

...CONTINUED...
Parasites/Diseases
Aeromonas hydrophila
86-002951
86-002962
86-002963
86-002966
86-004943
86-004948
86-004970
86-004980
86-004981
86-004983
86-004985
86-005007
Aeromonas sabria
86-001800
Aeromonas salmonicida
86-000867
86-000869
86-000876
86-001803
86-002940
86-002956
86-002958
86-002960
86-002965
86-004955
86-004957
86-004960
86-004976
86-004977
86-004984
86-004991
86-004997
86-004999
86-005000
86-005001
86-005016
Algal Infections
86-003026
Allocreadium ictaluri
86-005086
Amphistomes
86-001840
Amyloodinium ocellatum
86-005026
Anadonta grandis grandis
86-003017
Anemia
86-003025
86-003033
Anisakis
86-003007
Anisakis simplex
86-003002
86-005122
Antibiotics
86-002936
86-004939
86-004979
Antibodies
86-004969
Antigens
86-004997
Aporocotyle australis
86-003015
Argulus
86-005085
Aspergillus
86-001816
Aspergillus flavus
86-002970
Atrial Thrombus
86-005102
Austrobdella bilobata
86-005137

...CONTINUED...
Parasites/Diseases
Bacterial Diseases
86-000861
86-000862
86-000863
86-000864
86-000865
86-000866
86-000867
86-000868
86-000869
86-000870
86-000871
86-000872
86-000873
86-000874
86-000875
86-000876
86-000877
86-000878
86-000879
86-000897
86-001413
86-001798
86-001799
86-001800
86-001801
86-001802
86-001803
86-001804
86-001805
86-001806
86-001807
86-001808
86-001809
86-002926
86-002939
86-002940
86-002941
86-002942
86-002943
86-002944
86-002945
86-002946
86-002947
86-002948
86-002949
86-002950
86-002951
86-002952
86-002953
86-002954
86-002955
86-002956
86-002957
86-002958
86-002959
86-002960
86-002961
86-002962
86-002963
86-002964
86-002965
86-002966
86-002967
86-002968
86-004929
86-004942
86-004943
86-004944
86-004945
86-004946
86-004947
86-004948
86-004949

...CONTINUED...
Parasites/Diseases
Bacterial Diseases
86-004950
86-004951
86-004952
86-004953
86-004954
86-004955
86-004956
86-004957
86-004958
86-004959
86-004960
86-004961
86-004962
86-004963
86-004964
86-004965
86-004966
86-004967
86-004968
86-004969
86-004970
86-004971
86-004972
86-004973
86-004974
86-004975
86-004976
86-004977
86-004978
86-004979
86-004980
86-004981
86-004982
86-004983
86-004985
86-004986
86-004987
86-004988
86-004989
86-004990
86-004991
86-004992
86-004993
86-004994
86-004995
86-004996
86-004997
86-004998
86-004999
86-005000
86-005001
86-005002
86-005003
86-005004
86-005006
86-005007
86-005008
86-005009
86-005010
86-005011
86-005012
86-005013
86-005014
86-005015
86-005016
86-005017
Bacterial Gill Disease
86-000870
86-004995
86-005014
Bacterial Kidney Disease
86-000863
86-002943

...CONTINUED...
Parasites/Diseases
Bacterial Kidney Disease
86-004949
86-004950
86-004952
86-004954
86-004996
Balantidium prionurium
86-000886
Batracobdella smarasdina
86-005132
Bomolochidae
86-003005
Bothriocephalus gowkongensis
86-003052
Bothriocephalus opsariichthydis
86-003024
Branchiomyces
86-005019
Brown Blood Disease
86-000895
Caligus coryphaenae
86-000918
Callitetrarhynchus gracilis
86-005075
Calyptospora funduli
86-002977
Calyptospora serrasalmi
86-001829
Camallanus
86-003041
Capillaria schmidti
86-000906
Carcinogens
86-000932
86-005093
86-005234
86-005268
Caryophyllaeidae
86-001821
Cataracts
86-003036
86-003043
CCVD
86-000896
86-000901
86-000903
86-000904
Ceratomyxa shasta
86-000882
86-001811
86-005032
Cestodes
86-000520
86-000930
86-001821
86-001831
86-001848
86-001852
86-003000
86-003012
86-003016
86-003019
86-003024
86-003031
86-003040
86-003042
86-003049
86-003052
86-005075
86-005078
86-005087
86-005088
86-005105
86-005120

...CONTINUED...
Parasites/Diseases
Cestodes
86-005121
Channel Catfish Reovirus
86-002988
Chilodonella hexasticha
86-001819
Chinook Salmon Rosette Disease
86-005101
Chloromyxum
86-005045
Chum Salmon Virus
86-002988
Cichlidogyrus sclerosus
86-005134
Clinostomum complanatum
86-005120
86-005125
Columnaris Disease
86-001804
86-002942
Costiasis
86-002984
Crassicutis cichlasomae
86-005151
Cryptobia salmositica
86-005046
Cryptocaryon irritans
86-001812
86-001813
Crystallospora
86-002980
Cytophaga columnaris
86-002942
Dactylogyrus crossocheili
86-003022
Diphyllobothrium ditremum
86-005078
Diphyllobothrium latum
86-003000
Diplostomum
86-003044
86-005090
Diplostomum parviventosum
86-003042
Diplostomum spathaceum
86-003016
86-005146
86-005147
Disease Control
86-003422
Disease Importation
86-000010
Disinfection
86-001809
Dolops ranarum
86-001823
Drug Clearance
86-002933
Echinorhynchus gadi
86-005141
Echinorhynchus leidyi
86-005141
Echinorhynchus salmonis
86-005141
Edwardsiella ictaluri
86-000864
86-000897
86-001807
86-004972
Edwardsiella tarda
86-000877
86-000897
86-002947
86-004973

...CONTINUED...
Parasites/Diseases
Edwardsiella tarda
86-004986
86-005002
86-005015
Egtved Virus
86-000845
86-002996
Eimeria
86-005024
Eimeria halleri
86-001817
Enteridae
86-001826
Enteric Redmouth Disease
86-000845
86-000865
86-001799
86-002955
86-004951
86-004958
86-004998
86-005003
Enteric Septicemia
86-000897
Enteric Septicemia of Catfish
86-000864
86-001807
86-004972
Epidermal Lesions
86-000905
86-001845
86-005152
Epieimeria anguillae
86-002982
Epitheliocystis
86-002981
86-003038
Ergasilidae
86-001846
Ergasilus
86-003006
Eubothrium salvelini
86-003019
Eubrachiella antarctica
86-005115
Fin Erosion
86-000911
Flavobacterium
86-002946
86-004995
Flexibacter columnaris
86-001798
86-002952
Fluorescent Antibody Technique
86-001816
Fungal Diseases
86-000880
86-001810
86-001816
86-002969
86-002970
86-005018
86-005019
86-005020
86-005021
86-005022
Furunculosis
86-000867
86-000869
86-002956
86-002958
86-002960
86-002965
86-004955

...CONTINUED...
Parasites/Diseases
Furunculosis
86-004984
86-004991
86-004999
86-005000
Gangesia parasiluri
86-001831
Gas Bubble Disease
86-000914
86-003628
86-005103
86-005108
Gas Supersaturation
86-000910
General
86-000843
86-000844
86-000847
86-000848
86-000850
86-000851
86-000853
86-000854
86-000855
86-000856
86-000857
86-000858
86-000860
86-001790
86-001791
86-001793
86-001794
86-001797
86-001967
86-002920
86-002922
86-002923
86-002925
86-002926
86-002927
86-002930
86-002932
86-002935
86-002937
86-003004
86-004914
86-004915
86-004917
86-004920
86-004921
86-004922
86-004923
86-004924
86-004930
86-004932
86-004936
86-004938
86-004941
86-005219
86-005259
General/Bering Sea
86-004928
General/Brazil
86-001795
General/British Columbia:
Nanaimo River
86-002938
General/Channel Islands: Jersey
86-004925
General/Georgia
86-004919
General/Gulf of Finland
86-004940
General/Gulf of Mexico
86-001792

...CONTINUED...
Parasites/Diseases
General/Indian Ocean
86-004933
General/Indiana
86-002921
General/Malaysia
86-001796
General/South America
86-002924
General/U.K.
86-002931
General/USSR
86-000846
86-000849
86-000859
86-004916
86-004926
86-004927
General/USSR: Lake Sartlan
86-004937
General/USSR: River Tom
86-004918
General/USSR: Tyumen
86-004931
86-004934
86-004935
Gentamicin
86-000878
Gill Diseases
86-003046
86-004995
86-005014
86-005019
86-005094
Gill Necrosis
86-005318
Gill Parasites
86-001789
86-003009
86-003045
86-005034
86-005136
86-005138
86-005142
Glomerulonephritis
86-000924
Glugea stephani
86-002975
Golden Shiner Virus
86-002988
Goussia
86-005044
Goussia carpelli
86-005023
86-005035
Goussia polylepidis
86-000881
Gyrocotyle
86-003008
Gyrodactylus
86-001843
86-005091
86-005130
Gyrodactylus bullatarudis
86-000923
86-000928
86-005139
Gyrodactylus gasterostei
86-000915
Gyrodactylus katharineri
86-005089
Gyrodactylus lotae
86-005089
Gyrodactylus lucii
86-005089

...CONTINUED...
Parasites/Diseases
Gyrodactylus masu
86-005129
Gyrodactylus salaris
86-005110
Gyrodactylus schulmani
86-003053
Gyrodactylus stellatus
86-003023
Hatschekia
86-001841
Hatschekia affluens
86-001847
Hatschekia amphiprocessa
86-001847
Helminths
86-001851
86-005083
86-005126
Hematozoa
86-001814
Hemorrhagic Septicemia
86-000010
86-000866
86-002964
86-004964
86-005059
Henneguya exilis
86-005028
Henneguya salminicola
86-000883
Hepatic Carcinomas
86-005093
Hepatic Cysts
86-001827
Hepatic Lesions
86-000955
Hepatic Neoplasms
86-005186
Hepatocellular Ceroidosis
86-005107
Herpesvirus cyprini
86-005068
Heteraxine heterocerca
86-005142
Hitra Disease
86-004967
Hyperplasia
86-005082
86-005152
Ichthyobodo
86-002984
Ichthyobodo necator
86-000884
Ichthyofilaria canadensis
86-001822
Ichthyophonus
86-005041
Ichthyophonus Disease
86-005020
Ichthyophonus hoferi
86-001806
86-005020
86-005021
Ichthyophthiriasis
86-000891
86-002971
86-002978
86-005038
Ichthyophthirius multifiliis
86-000891
86-002971
86-002973
86-002976
86-002978

...CONTINUED...
Parasites/Diseases
Ichthyophthirius multifiliis
86-005030
86-005038
IHN
86-000898
86-002995
86-005005
86-005051
86-005053
86-005055
86-005063
86-005064
Immune Response
86-000845
86-002940
86-002945
86-002951
86-002968
86-002996
86-003959
86-004977
86-005146
Immunization
86-000861
86-000876
86-000877
86-001799
86-002929
86-002940
86-002944
86-002957
86-002967
86-002978
86-003960
86-004945
86-004963
86-004968
86-004975
86-004980
86-004984
86-004996
86-005064
Injuries
86-000931
86-005112
Intestinal Lesions
86-001833
IPN
86-000902
86-002987
86-002991
86-002994
86-002997
86-005058
Isoglaridacris multivitellaria
86-001821
Jauela glandicephalus
86-003012
Kuchijiro-sho
86-005054
86-005062
86-005070
86-005071
Kudoa
86-005042
Kudoa thyrsitis
86-005033
Lacistorhynchus tenuis
86-001848
86-003040
Lactobacillus
86-000872
Lampanyctophilus wisneri
86-005133

...CONTINUED...
Parasites/Diseases
Lamprey Parasitism
86-000919
86-001853
Leeches
86-000936
86-001825
86-005132
86-005137
Lernaea barnimiana
86-003048
Lernaea cruciata
86-005128
Lernaea cyprinacea
86-003035
Lernaeenicus
86-005135
Lernaeenicus sprattae
86-001832
Lernaeocera lusci
86-003011
Ligictaluridus posthon
86-000920
Ligula intestinalis
86-000520
86-003049
Lincomycin
86-004979
Lintaxine cokeri
86-003029
Liver Lesions
86-000909
Loma morhua
86-001815
Lophoura gracilis
86-003020
Lordosis
86-005104
Lymphocystis
86-001820
86-005057
86-005067
Lymphosarcomas
86-000907
Magathylacus brooksi
86-003012
Mariporrocaecum
86-005140
Methemoglobinemia
86-000895
Microgemma hepaticus
86-005043
Microsporidia
86-005040
Mites
86-005099
Mocardia kampachi
86-002950
Multicalyx cristata
86-005149
Multinucleate Giant Cells
86-000929
Mycobacterium chelonei
86-004947
Mycoplasmas
86-002959
Myctophilus sprostonae
86-005133
Myxobolus
86-003009
Myxobolus encephalicus
86-005029
Myxobolus insidiosus
86-005025
Myxobolus kotlani
86-002983

...CONTINUED...
Parasites/Diseases
Myxosoma cerebralis
86-000010
86-000893
86-001818
86-005037
Myxosporea
86-002974
86-003009
86-005045
Myxosporidia
86-000885
86-002985
Nematodes
86-000906
86-000921
86-000933
86-001822
86-001837
86-001844
86-003002
86-003007
86-003014
86-003041
86-005117
86-005118
86-005122
86-005123
86-005140
86-005144
Neoechinorhynchus cylindratus
86-002999
Neoechinorhynchus prolixoides
86-005076
Neoechinorhynchus robertbaueri
86-005076
Nephroblastoma
86-005100
Nerocila acuminata
86-003034
86-003051
Nodular Excrescences
86-005145
Nodular Gill Disease
86-000870
86-005094
Nutritional Diseases
86-000922
86-000926
86-003025
86-003036
Octosporella
86-000889
Ommatokoita
86-005106
Onchocleidus interruptus
86-005079
Onchocleidus mimus
86-005079
Opistholebetidae
86-001826
Orientocrendium batrachoides
86-005143
Ormethoprim
86-005017
Osteochilotrema malayae
86-001840
Otobothrium kurisi
86-000930
Pachycreadium carnosum
86-003039
Pallisentis kalriai
86-005114
Pancreas Disease
86-001835

...CONTINUED...
Parasites/Diseases
Paradeontacylix
86-005131
Paraechinorhynchus kalriai
86-005081
Parasitic Ciliates
86-000892
Parasitic Copepods
86-000913
86-000918
86-001789
86-001823
86-001832
86-001841
86-001846
86-001847
86-003005
86-003006
86-003011
86-003020
86-003032
86-003035
86-003037
86-003045
86-003048
86-005085
86-005096
86-005106
86-005115
86-005128
86-005135
86-005138
Parasitic Isopods
86-003034
86-003051
Parasitic Mites
86-001834
Parasitic Molluscs
86-003017
86-005077
Parasitic Turbellarians
86-005113
Parasiticides
86-002934
Paravortex
86-005113
Pasteurella
86-004963
86-005013
Pasteurella piscicida
86-005012
Pennella
86-003037
Phagicola longa
86-005092
86-005150
Philometra channai
86-005118
Phoma
86-002969
Piscicola salmositica
86-001825
Pleistophora priacanthicola
86-000541
Pleorchiidae
86-001826
Plesiomonas shigelloides
86-004956
Pomphorhynchus laevis
86-005084
Pomphorhynchus rocci
86-001842
Porrocaecum
86-005140
Proliferative Kidney Disease
86-002979

...CONTINUED...
Parasites/Diseases
Proliferative Kidney Disease
86-003018
86-005027
86-005036
Protocephalus
86-003031
Protozoan Diseases
86-000010
86-000541
86-000881
86-000882
86-000883
86-000884
86-000885
86-000886
86-000887
86-000888
86-000889
86-000890
86-000891
86-000892
86-000893
86-001811
86-001812
86-001813
86-001814
86-001815
86-001817
86-001818
86-001819
86-001829
86-002928
86-002971
86-002972
86-002973
86-002974
86-002975
86-002976
86-002977
86-002978
86-002979
86-002980
86-002981
86-002982
86-002983
86-002984
86-002985
86-002986
86-003009
86-005023
86-005024
86-005025
86-005026
86-005027
86-005028
86-005029
86-005030
86-005031
86-005032
86-005033
86-005034
86-005035
86-005036
86-005037
86-005038
86-005039
86-005040
86-005041
86-005042
86-005043
86-005044
86-005045
86-005046
Pseudascarophis kyphosi
86-000921

...CONTINUED...
Parasites/Diseases
Pseudomonas
86-002964
Pseudomonas anguilliseptica
86-000875
86-004989
Pseudomonas fluorescens
86-004959
Pseudotuberculosis
86-004963
Rajonchocotyle emarginata
86-003050
Raphidascaroides
trachinocephalusi
86-005117
Red Sore Disease
86-005128
Renibacterium
86-002949
Renibacterium salmoninarum
86-000863
86-002940
86-004949
86-004950
86-004952
86-004953
86-004954
86-004966
Reovirus 13P2
86-002988
Retrobulla angelae
86-001830
Rhobdovirus
86-005047
Rosette Agent
86-005098
Saccocoelioides godoyi
86-005116
Salmincola californiensis
86-003045
Sanguinicola fontinalis
86-000917
86-003021
Santeria rubalo
86-005083
Saprolegnia
86-000880
86-005018
86-005022
Silurodiscoides
86-005119
Sodium Pentachlorophenate
86-002949
Sphaerospora
86-002972
Sphaerospora araii
86-002974
Sphaerospora renicola
86-005039
Spring Viraemia
86-000894
Spring Viremia
86-002989
Staphylococcus aureus
86-005006
Streptococcus
86-000871
86-004971
86-004979
86-004994
Stress
86-001804
Subtriquetra subtriquetra
86-005153
Sulphamonometoxin
86-005017

...CONTINUED...
Parasites/Diseases
Sunburn
86-000884
86-000926
Swimbladder Disease
86-005039
Swimbladder Stress Syndrome
86-003001
Tanaorhamphus longirostris
86-001838
Telangiectasis
86-000916
Thersitina gasterostei
86-005096
Toxic Gill Necrosis
86-003046
Trematodes
86-000913
86-000915
86-000917
86-000920
86-000923
86-000925
86-000927
86-000928
86-001789
86-001824
86-001826
86-001828
86-001830
86-001836
86-001839
86-001840
86-001843
86-001850
86-002928
86-003008
86-003013
86-003015
86-003021
86-003022
86-003023
86-003028
86-003029
86-003039
86-003044
86-003047
86-003050
86-003053
86-005079
86-005081
86-005086
86-005089
86-005090
86-005091
86-005092
86-005097
86-005109
86-005110
86-005111
86-005116
86-005119
86-005125
86-005129
86-005130
86-005131
86-005133
86-005134
86-005136
86-005138
86-005139
86-005143
86-005146
86-005147
86-005149

...CONTINUED...
Parasites/Diseases
Trematodes
86-005150
86-005151
Triaenophorus crassus
86-001852
Triaenophorus nodulosus
86-005105
Trifur
86-003037
Trilocularia acanthiaevulgaris
86-005121
Trypanoplasma borelli
86-002986
Trypanosoma murmanensis
86-000887
Tuberculosis
86-005124
Tumors
86-000908
86-000912
86-000932
86-001827
86-001849
86-003010
86-003027
86-003030
86-003136
86-005067
86-005073
86-005148
86-005265
86-005268
86-005314
Ulcer Disease
86-000874
86-002960
86-004960
86-004976
Ulcers
86-005062
86-005071
Ultrasound Imaging
86-000883
Ultraviolet Light
86-005074
Unio
86-005077
Vibrio
86-000873
86-000879
86-001801
86-002953
86-004929
86-004965
86-004967
Vibrio anguillarum
86-000862
86-000873
86-001802
86-002939
86-002940
86-002957
86-002968
86-004946
86-004968
86-004969
86-004975
86-004978
86-004987
86-004990
86-005008
86-005009
86-005010
86-005011

...CONTINUED...
Parasites/Diseases
Vibriosis
86-002967
86-004929
86-004946
86-004967
86-004990
86-005008
86-005009
86-005010
86-005011
Viral Diseases
86-000010
86-000845
86-000894
86-000896
86-000898
86-000899
86-000900
86-000901
86-000902
86-000903
86-000904
86-000905
86-001820
86-002926
86-002987
86-002988
86-002989
86-002990
86-002991
86-002992
86-002993
86-002994
86-002995
86-002996
86-002997
86-002998
86-004942
86-005005
86-005047
86-005048
86-005049
86-005050
86-005051
86-005052
86-005053
86-005054
86-005055
86-005056
86-005057
86-005058
86-005059
86-005060
86-005061
86-005062
86-005063
86-005064
86-005065
86-005066
86-005067
86-005068
86-005069
86-005070
86-005071
86-005072
86-005073
86-005074
Viral Erythrocytic Necrosis
86-005065
86-005066
Viral Hemorrhagic Septicemia
86-002989
86-002990
86-005060

...CONTINUED...
Parasites/Diseases
Visceral Adhesions
86-005127
Whirling Disease
86-000010
86-000893
86-001818
86-002973
86-002976
86-005037
White Spot Disease
86-001813
86-005034
Yellowtail Ascites Virus
86-005048
86-005049
86-005061
86-005069
Yersinia ruckeri
86-000845
86-000861
86-000865
86-001799
86-002940
86-002944
86-002954
86-002955
86-002961
86-004951
86-004958
86-004998
86-005003
Physiology
Acidosis
86-002533
86-003898
Acoustico-Lateralis System
86-000206
86-000267
86-000337
86-001445
86-001481
86-002301
86-002395
86-004024
Acute Inflamatory Response
86-000934
Air Breathing
86-000212
86-000331
86-000388
86-002384
86-003725
86-003760
86-003761
86-004041
Alarm Substances
86-001491
86-004043
86-004044
Amiloride
86-000317
Amino Acids
86-000083
86-000222
86-000329
86-000399
86-000406
86-000429
86-000493
86-002157
86-002365
86-002484
86-002507
86-002571

...CONTINUED...
Physiology
Amino Acids
86-002659
86-003851
86-003853
86-004069
Ampullary System
86-001490
Anoxia
86-000238
86-000277
86-001447
Antibodies
86-005005
Antifreeze Production
86-001510
86-002314
86-002315
86-002344
86-003848
86-003921
86-003929
86-004146
Antigens
86-000226
86-000303
Ascorbic Acid
86-001005
86-002160
ATP
86-000287
86-000288
86-001397
86-001433
86-002341
86-002397
86-003939
86-003958
86-003964
86-003989
Atresia
86-000275
Autoregulation
86-000217
Bacterial Flora
86-001413
Bile Composition
86-004023
Biochemical Composition
86-000187
86-000219
86-000237
86-000319
86-000379
86-000398
86-000401
86-000402
86-000415
86-000432
86-000434
86-001288
86-001404
86-002159
86-002334
86-002406
86-002411
86-002431
86-002447
86-002458
86-002459
86-002460
86-002485
86-002508
86-002531
86-002535

...CONTINUED...
Physiology
Biochemical Composition
86-002549
86-003558
86-003861
86-003867
86-003881
86-003891
86-003893
86-003896
86-003908
86-003918
86-003923
86-003967
86-004017
86-004021
86-004022
86-004025
86-004038
Bioenergetics
86-000211
86-000335
86-000415
86-000416
86-000803
86-001250
86-001415
86-001473
86-001694
86-002292
86-002350
86-002351
86-002434
86-002495
86-002653
86-002801
86-003825
86-003863
86-003880
86-004040
86-004048
86-004062
86-004310
86-004430
86-004632
Bioluminescence
86-000284
86-001470
86-002401
86-002516
Blood Chemistry
86-000189
86-000197
86-000213
86-000229
86-000231
86-000236
86-000237
86-000247
86-000248
86-000249
86-000250
86-000255
86-000272
86-000278
86-000286
86-000295
86-000298
86-000313
86-000314
86-000317
86-000328
86-000339
86-000345
86-000346

...CONTINUED...
Physiology
Blood Chemistry
86-000350
86-000363
86-000376
86-000377
86-000390
86-000394
86-000399
86-000407
86-000423
86-000446
86-000451
86-000909
86-001298
86-001399
86-001402
86-001434
86-001439
86-001454
86-001459
86-001492
86-001504
86-001509
86-001512
86-001516
86-001927
86-002171
86-002310
86-002313
86-002317
86-002322
86-002326
86-002352
86-002365
86-002374
86-002379
86-002389
86-002394
86-002407
86-002408
86-002416
86-002419
86-002443
86-002469
86-002484
86-002490
86-002494
86-002496
86-002497
86-002500
86-002504
86-002524
86-002525
86-002526
86-002528
86-002530
86-002532
86-002544
86-002550
86-002553
86-002555
86-002559
86-002568
86-002578
86-003451
86-003459
86-003587
86-003700
86-003824
86-003850
86-003858
86-003861
86-003876
86-003878

...CONTINUED...
Physiology
Blood Chemistry
86-003892
86-003903
86-003907
86-003917
86-003920
86-003924
86-003930
86-003932
86-003966
86-003969
86-003984
86-004003
86-004006
86-004029
86-004046
86-004050
86-004054
86-004067
86-004070
86-004071
86-004072
86-004085
86-004087
86-004132
86-004133
86-004134
86-004988
Body Temperature
86-000204
86-000240
86-001463
86-002305
86-003849
86-003962
Cadmium
86-001453
86-004001
Calcium
86-000242
86-000274
86-000353
86-001399
86-001431
86-001432
86-001505
86-001516
86-002158
86-002334
86-002385
86-002436
86-002475
86-002488
86-002558
86-003912
Carbohydrate Metabolism
86-000375
86-003852
Carbon Dioxide
86-003999
Cardio-Vascular System
86-000194
86-000195
86-000242
86-000245
86-000389
86-000405
86-000414
86-001425
86-001437
86-001480
86-001511
86-002336
86-002340

...CONTINUED...
Physiology
Cardio-Vascular System
86-002367
86-002370
86-002402
86-002412
86-002421
86-002481
86-002523
86-002541
86-002563
86-003879
86-003880
86-003898
86-003985
86-004026
86-004040
Carotenoids
86-001449
86-002463
86-003940
86-003963
Catecholamines
86-000229
86-000270
86-000314
86-000378
86-001482
86-002310
86-002320
86-002496
86-002514
86-002540
86-003874
Caudal Neurosecretory System
86-000348
86-002414
86-003992
86-004077
Chloride Cells
86-000252
86-002466
Chromaffin Tissue
86-000229
Collagen
86-003926
86-003936
86-004027
86-004035
86-004042
86-004086
Coloration
86-000341
Copper
86-000187
86-003548
Corpuscle of Stannius
86-001505
86-004068
Corticosteroids
86-000350
Cortisol
86-000189
86-000218
86-000231
86-001402
86-001492
86-002303
86-002311
86-002419
86-002500
86-002530
86-003966
86-004081
Cytochalasin B
86-000205

...CONTINUED...
Physiology
Digestion Rates
86-000386
86-001665
86-002357
86-002446
86-002792
Digestive System
86-000202
86-000203
86-000282
86-000299
86-000312
86-000358
86-000659
86-001408
86-001478
86-001496
86-001507
86-002312
86-002323
86-002329
86-002331
86-002333
86-002375
86-002396
86-002425
86-002432
86-002446
86-002449
86-002454
86-002467
86-002482
86-002499
86-002527
86-003579
86-003827
86-003831
86-003851
86-003902
86-003949
86-003950
86-003970
86-004055
86-004056
86-004060
86-004065
Digestive System/Bacterial Flora
86-000202
86-000396
86-002517
86-003948
86-003949
86-003950
DNA
86-001401
86-001520
86-002543
86-003707
86-003832
Egg Size
86-000795
Eggs
86-000228
86-000256
86-002368
86-002411
86-002431
86-002510
86-002531
86-003697
86-003926
86-003967
86-004001
86-004020

...CONTINUED...
Physiology
Electric Organs
86-001438
86-001486
86-002297
86-003904
Electrophoresis
86-000182
86-000183
86-002389
Electrophysiology
86-000253
86-000322
86-001438
86-001457
86-001458
86-002301
86-002325
86-002492
86-002569
86-003828
86-003836
86-004019
Electroreception
86-002503
86-002513
86-003818
86-003826
86-003987
Electroshock
86-000417
86-002629
86-003894
86-003954
Embryology
86-000297
86-000352
86-000359
86-000409
86-001423
86-002333
86-002350
86-002351
86-003934
Endocrinology
86-000035
86-000196
86-000199
86-000207
86-000209
86-000210
86-000225
86-000226
86-000234
86-000239
86-000257
86-000279
86-000280
86-000285
86-000294
86-000301
86-000302
86-000306
86-000307
86-000311
86-000318
86-000336
86-000338
86-000344
86-000360
86-000363
86-000364
86-000374
86-000381
86-000383

...CONTINUED...
Physiology
Endocrinology
Endocrinology
86-000393
86-000397
86-000400
86-000403
86-000425
86-000435
86-000437
86-001298
86-001400
86-001409
86-001428
86-001432
86-001435
86-001460
86-002298
86-002308
86-002309
86-002311
86-002319
86-002371
86-002373
86-002390
86-002391
86-002393
86-002400
86-002419
86-002420
86-002424
86-002426
86-002437
86-002450
86-002452
86-002453
86-002471
86-002479
86-002486
86-002488
86-002491
86-002493
86-002498
86-002511
86-002529
86-002536
86-002547
86-002556
86-002557
86-002559
86-002562
86-002577
86-003817
86-003821
86-003837
86-003838
86-003840
86-003845
86-003865
86-003867
86-003874
86-003889
86-003900
86-003901
86-003907
86-003909
86-003944
86-003946
86-003965
86-003982
86-003996
86-004004
86-004013
86-004015
86-004028

...CONTINUED...
Physiology
Endocrinology
86-004030
86-004031
86-004036
86-004037
86-004055
86-004068
86-004076
86-004081
Endorphins
86-000419
Enzymes
86-000071
86-000203
86-000208
86-000220
86-000241
86-000246
86-000262
86-000281
86-000292
86-000299
86-000312
86-000323
86-000324
86-000358
86-000362
86-000368
86-000369
86-000409
86-000410
86-000411
86-000422
86-000424
86-000992
86-001396
86-001408
86-001420
86-001452
86-001461
86-001483
86-001484
86-001495
86-001496
86-001499
86-001507
86-002295
86-002312
86-002319
86-002329
86-002342
86-002359
86-002372
86-002375
86-002381
86-002417
86-002418
86-002421
86-002427
86-002430
86-002439
86-002449
86-002454
86-002472
86-002482
86-002506
86-002520
86-002526
86-002527
86-002576
86-002590
86-002591
86-002815

...CONTINUED...
Physiology
Enzymes
86-003820
86-003831
86-003855
86-003859
86-003860
86-003886
86-003899
86-003931
86-003933
86-003949
86-003958
86-003968
86-003971
86-003986
86-003994
86-004008
86-004009
86-004010
86-004012
86-004048
86-004060
86-004061
86-005282
Epidermis
86-004083
86-004084
Excretory System
86-000347
86-000370
86-001462
86-001502
86-002337
86-002343
86-002361
86-002371
86-002377
86-002398
86-002400
86-002430
86-002461
86-002502
86-002552
86-002572
86-003843
86-003846
86-003847
86-003955
86-003999
Exercise
86-000375
86-001417
86-001497
86-001501
86-001515
86-002310
86-002470
86-002496
86-004074
Fecundity
86-000227
86-000273
86-000603
86-000622
86-001472
86-001629
86-001637
86-001639
86-001648
86-001701
86-001755
86-002276
86-002363
86-002756

...CONTINUED...
Physiology
Fecundity
86-003143
86-003577
86-003922
86-004400
86-004404
86-004409
86-004410
86-004413
86-004414
86-004424
Fertilization
86-000431
Food Conversion Efficiency
86-001405
86-001419
86-002051
86-002434
86-003993
86-004045
Food Digestibility
86-000202
86-000233
86-001317
Gall Bladder
86-001498
Gills
86-002733
Glucose
86-002392
Growth
86-003923
Growth Hormone
86-000318
86-000344
86-000403
86-000425
86-001471
86-002308
86-002556
86-002557
86-003821
86-004015
86-004076
Growth Stimulants
86-002348
Healing
86-003040
86-003823
Heavy Metals
86-001453
86-004018
Hermaphroditism
86-001412
86-001441
86-002363
86-002382
86-003883
86-004428
Hormones
86-000234
86-000235
86-000236
86-000261
86-000279
86-000301
86-000307
86-000318
86-000359
86-000394
86-000400
86-001400
86-001418
86-001929

...CONTINUED...
Physiology
Hormones
86-002294
86-002298
86-002341
86-002348
86-002420
86-002437
86-002450
86-002479
86-002488
86-002489
86-002491
86-002493
86-002523
86-002545
86-002551
86-002578
86-003886
86-003890
86-003900
86-003942
86-003986
86-003989
86-003991
86-004005
86-004052
86-004065
Hypothalamic-Hypophyseal System
86-000198
86-000269
86-000300
86-003995
86-004028
Hypoxia
86-000215
86-000247
86-001509
86-001754
86-002356
86-002384
86-002415
86-002416
86-003869
86-003872
86-003898
86-004029
86-005046
Immune Response
86-000191
86-000265
86-000361
86-000420
86-002306
86-002378
86-002478
86-002483
86-002521
86-002575
86-003834
86-003856
86-003911
86-003959
86-003960
86-003976
86-004014
86-004075
86-004077
Immunoglobulins
86-003953
86-004002
86-004057
86-004058
Induced Maturation
86-000035

...CONTINUED...
Physiology
Induced Maturation
86-000392
86-000412
86-001422
86-002440
86-002561
Inflammatory Response
86-002504
86-004050
Insulin
86-003875
Integument
86-002565
Ionophore A23187
86-000371
Iron
86-000187
86-001508
86-002142
86-002322
86-002334
86-002459
86-002508
Isozymes
86-002386
Lactate Dehydrogenase
86-000220
86-000240
86-000433
86-002353
86-003914
86-004012
Leucocyte Migration
86-001467
Lipid Composition
86-000259
86-000266
86-000309
86-000315
86-000340
86-000385
86-001404
86-001410
86-002368
86-002512
86-002534
86-002564
86-002566
86-003822
86-003842
86-003943
86-003975
86-004051
86-004082
Lipid Content
86-002447
Lipid Metabolism
86-000079
86-000200
86-000244
86-000258
86-000380
86-000401
86-001398
86-001513
86-001888
86-002132
86-002159
86-002307
86-002392
86-002487
86-002560
86-003533
86-003553

...CONTINUED...
Physiology
Lipid Metabolism
86-003877
86-003910
86-003919
86-003931
86-003947
86-003969
86-004036
86-005304
Liver
86-000356
86-001493
86-001500
86-001871
86-002473
86-002520
86-003913
Locomotion
86-000263
86-002349
86-003819
86-004016
Lymphatic System
86-000304
Magnesium
86-000244
86-000272
86-000347
86-000436
Magnetite
86-000491
Masculinization
86-001521
Maturation
86-000016
86-000019
86-000224
86-000310
86-000355
86-000387
86-000391
86-000404
86-000410
86-000415
86-000596
86-000602
86-000603
86-000608
86-001383
86-001477
86-001581
86-001629
86-001648
86-001696
86-002076
86-002290
86-002304
86-002346
86-002363
86-002380
86-002387
86-002409
86-002427
86-002450
86-002476
86-002477
86-002498
86-002545
86-002689
86-002692
86-002752
86-002760
86-002826
86-003490

...CONTINUED...
Physiology
Maturation
86-003873
86-003890
86-003935
86-003966
86-003974
86-003983
86-004059
86-004086
86-004136
86-004365
86-004395
86-004400
86-004409
86-004410
86-004434
Metabolic Rates
86-000168
86-000213
86-000243
86-000335
86-000384
86-000421
86-000428
86-001395
86-001419
86-001517
86-001706
86-002354
86-003864
86-003866
86-003868
86-003872
86-003934
86-003997
86-004062
86-004643
Metabolism
86-003956
86-004005
Metallothionein
86-005263
Metamorphosis
86-000279
86-000285
86-001427
86-002283
86-002360
Molybdenum
86-000187
Morphine
86-003941
Mucus
86-001506
86-005331
Musculature
86-000185
86-000240
86-000254
86-000276
86-000283
86-000332
86-000417
86-000434
86-001397
86-001436
86-001451
86-001452
86-001499
86-002292
86-002294
86-002295
86-002335
86-002360

...CONTINUED...
Physiology
Musculature
86-002406
86-002474
86-002574
86-003819
86-003928
86-003958
86-004011
86-004017
86-004038
86-004073
Nervous System
86-000194
86-000195
86-000222
86-000251
86-000253
86-000263
86-000282
86-000305
86-000331
86-000337
86-000343
86-000365
86-000373
86-000408
86-000419
86-001425
86-001435
86-001475
86-001476
86-001519
86-002325
86-002330
86-002336
86-002412
86-002474
86-002480
86-002492
86-002513
86-002535
86-003830
86-003836
86-003915
86-003955
Nidamental Gland
86-004020
Nitrogen Metabolism
86-002366
86-002443
86-002537
86-002549
86-003884
86-003885
Nutrient Requirements
86-002507
Nutrition
86-000072
86-000081
86-000926
86-001315
86-001320
86-002142
86-002152
86-002157
86-002159
86-002342
86-002487
86-003952
86-005231
Olfaction
86-000289
86-000373
86-002278

...CONTINUED...
Physiology
Olfaction
86-002509
Opioid Peptides
86-003941
Osmoregulation
86-000214
86-000232
86-000252
86-000280
86-000321
86-000325
86-000327
86-000353
86-000385
86-000397
86-001416
86-001426
86-001433
86-001434
86-001443
86-001450
86-001462
86-001466
86-001494
86-001502
86-001514
86-001523
86-001916
86-002293
86-002302
86-002328
86-002341
86-002345
86-002362
86-002377
86-002398
86-002400
86-002407
86-002419
86-002438
86-002455
86-002456
86-002466
86-002468
86-002499
86-002559
86-002567
86-002568
86-002571
86-003284
86-003829
86-003850
86-003906
86-003909
86-003925
86-003938
86-004013
86-004034
86-004039
86-004079
Otoliths
86-003895
Parr-Smolt Transformation
86-000239
86-000326
86-000350
86-000351
86-000380
86-000395
86-000998
86-001460
86-001466
86-001523
86-002331

...CONTINUED...
Physiology
Parr-Smolt Transformation
86-002392
86-002409
86-002438
86-002448
86-002456
86-002471
86-002803
86-003841
86-003889
86-004081
86-004085
86-004086
pH Regulation
86-002323
86-002326
86-002327
86-002328
86-002461
86-002469
86-002532
86-002533
86-003916
Phagocytosis
86-004049
Phosphorus
86-003556
Pigments
86-000223
86-000341
86-002291
86-002339
86-002410
86-002546
86-003854
Pineal Body
86-000330
86-001474
86-003840
86-003973
86-003981
86-003990
86-004053
Pituitary
86-003834
Potassium
86-001426
Precocious Males
86-002476
Precocious Maturation
86-001468
86-002477
Pressure Effects
86-002299
86-002457
Prostaglandins
86-001407
86-004066
Protandry
86-001702
Protein Metabolism
86-003897
Protein Synthesis
86-000244
86-001465
86-001866
86-002159
86-002335
86-002361
86-002405
86-002815
86-003531
86-003538
86-003582

...CONTINUED...
Physiology
Protein Synthesis
86-003827
86-003881
86-003882
86-003923
86-003952
86-003965
Rectal Gland
86-000385
86-001503
86-002338
86-002355
86-002364
86-002388
86-002422
86-002423
86-002435
86-002436
86-002441
86-002462
86-002519
86-002523
86-002578
86-002579
86-003905
Regeneration
86-002330
86-002548
86-003161
86-004042
Renin-Angiotensin System
86-001485
86-003985
Repiratory System
86-002415
Reproduction
86-000188
86-000190
86-000199
86-000201
86-000216
86-000224
86-000256
86-000296
86-000301
86-000310
86-000311
86-000316
86-000322
86-000338
86-000360
86-000364
86-000372
86-000373
86-000381
86-000383
86-000413
86-000426
86-000596
86-000603
86-000604
86-000614
86-001409
86-001412
86-001418
86-001441
86-001468
86-001484
86-001487
86-001639
86-002332
86-002346
86-002347
86-002373

...CONTINUED...
Physiology
Reproduction
86-002380
86-002387
86-002390
86-002391
86-002403
86-002404
86-002424
86-002426
86-002433
86-002437
86-002444
86-002450
86-002452
86-002453
86-002489
86-002493
86-002501
86-002511
86-002515
86-002522
86-002536
86-002539
86-002545
86-002551
86-002554
86-002561
86-002562
86-002566
86-002751
86-003839
86-003845
86-003870
86-003871
86-003873
86-003922
86-003994
86-003998
86-004033
86-004052
86-004400
86-004414
86-004420
86-004424
Reproductive System
86-000147
86-000221
86-000258
86-000275
86-000374
86-000430
86-001424
86-001429
86-002318
86-002427
86-002440
86-002442
86-002548
86-003750
86-003838
86-003901
Research Test Fish
86-002570
Respiration
86-000192
86-000194
86-000197
86-000212
86-000243
86-000247
86-000254
86-000274
86-000277
86-000278

...CONTINUED...
Physiology
Respiration
86-000331
86-000354
86-000365
86-001390
86-001395
86-001512
86-002340
86-002349
86-002354
86-002384
86-002399
86-002505
86-002544
86-003830
86-003844
86-003869
86-003917
86-003951
86-003997
86-004032
86-004041
86-004047
Respiratory System
86-002538
Rigor Mortis
86-002413
RNA
86-001520
86-003707
Rodlet Cells
86-003832
86-003833
Scales
86-004042
86-004088
Selenium
86-001406
86-001455
86-001456
86-003532
Serotonin
86-000263
Sex Determination
86-001337
86-003857
Sex Reversal
86-000230
86-000342
86-003972
86-004212
86-004213
Skeletal System
86-000129
86-000432
86-002385
Sodium
86-000252
Spawning
86-000603
Specific Dynamic Action
86-000213
86-001319
Sperm
86-000357
86-003406
Starvation
86-000186
86-000219
86-000271
86-000399
86-001404
86-001520
86-002331

...CONTINUED...
Physiology
Starvation
86-002397
86-002418
86-002542
86-003862
86-004008
86-004037
86-004045
86-004072
86-004078
Steroids
86-000078
86-000207
86-000310
86-000349
86-000351
86-000356
86-000364
86-000372
86-000391
86-001469
86-001491
86-002151
86-002295
86-002317
86-002390
86-002426
86-002490
86-002501
86-002511
86-003935
86-003942
86-003991
86-004031
Stress
86-000017
86-000193
86-000231
86-000249
86-000313
86-000314
86-000375
86-000376
86-000421
86-000992
86-001399
86-001402
86-001430
86-001446
86-001489
86-001501
86-001518
86-001925
86-002168
86-002169
86-002170
86-002171
86-002300
86-002311
86-002378
86-002428
86-002464
86-002481
86-002518
86-002530
86-003267
86-003590
86-003868
86-003961
86-004054
86-004064
86-004070
86-004072
Swimbladder
86-000418

...CONTINUED...
Physiology
Swimming Performance
86-000428
86-001417
86-003863
Taurine
86-002429
Techniques/Blood Chemistry
86-001403
86-003980
Techniques/Blood Sampling
86-001448
86-003046
Techniques/Cell Culture
86-000260
86-000264
86-002451
Techniques/Dietary Markers
86-004080
Techniques/Digestion Rates
86-001665
86-003927
86-003977
86-003988
86-004000
Techniques/Endocrinology
86-003888
Techniques/Hepatocyte
Preparation
86-000334
Techniques/Metabolic Rates
86-001414
Techniques/Radioactive Tracers
86-000294
86-004080
Techniques/Reproductive System
86-001464
Techniques/Respiration
86-001488
Temperature
86-002313
Thermal Regulation
86-000204
86-001436
86-004007
Thermal Shock
86-000291
86-000293
86-001461
86-002313
86-002316
86-002376
86-002445
86-003937
Tonic Immobility
86-004073
Toxins
86-000366
86-000367
86-005273
Twinning
86-001440
Ultimobranchial Gland
86-001505
Vision
86-000253
86-000320
86-001442
86-001522
86-002358
86-002383
86-002546
86-002573
86-003835
86-003978

...CONTINUED...
Physiology
Vitamins
86-002152
86-003532
86-003549
86-003912
Vitellogenin
86-002332
86-002404
86-002444
86-003957
86-004052
Zinc
86-001878
86-004018
Pollution
Acid Mine Water
86-003079
Acid Precipitation
86-000321
86-000939
86-000951
86-000952
86-000953
86-000954
86-000962
86-000963
86-001303
86-001459
86-001867
86-001868
86-002204
86-003055
86-003063
86-003065
86-003076
86-003084
86-003086
86-005155
86-005160
86-005162
86-005163
86-005165
86-005169
86-005171
86-005177
86-005179
86-005192
86-005210
86-005214
86-005218
86-005222
Acidification
86-000944
86-001734
86-003055
86-003655
86-004524
86-005162
86-005171
86-005214
86-005261
Aldrin
86-003066
Aluminum
86-000943
86-000950
86-000962
86-000963
Aroclor
86-005197
Aromatic Hydrocarbons
86-000955
86-005204
Aromatic Organohalogens
86-003074

...CONTINUED...
Pollution
Arsenic
86-005207
86-005212
Biological Indicators
86-005157
86-005168
86-005178
Biological Monitoring
86-003069
86-005183
86-005193
86-005201
Biomagnification
86-000937
86-000938
86-000940
86-000942
86-000943
86-000949
86-000956
86-000957
86-000958
86-000959
86-000968
86-000971
86-000974
86-000995
86-001029
86-001854
86-001856
86-001857
86-001860
86-001920
86-003059
86-003062
86-003066
86-003070
86-003071
86-003074
86-003075
86-003077
86-003078
86-003080
86-003082
86-003083
86-003087
86-003089
86-003143
86-005156
86-005159
86-005161
86-005167
86-005172
86-005173
86-005174
86-005175
86-005176
86-005180
86-005182
86-005187
86-005190
86-005191
86-005197
86-005204
86-005207
86-005208
86-005212
86-005217
86-005326
Cadmium
86-000949
86-001029
86-003062
86-005156

...CONTINUED...
Pollution
Cadmium
86-005159
86-005191
86-005199
Carbaryl
86-005194
Carbofuran
86-003111
Carcinogens
86-005168
Chlorinated Biphenyls
86-001865
Chlorinated Hydrocarbons
86-000971
86-005174
86-005182
86-005188
86-005190
Chlorinated Phenols
86-005161
Chlorine
86-001866
Chlorophenols
86-000971
Coal Leachates
86-005215
Cold Shock
86-000964
Copper
86-001854
86-003062
86-005181
86-005191
86-005199
86-005217
Cypermethrin
86-003081
DDT
86-003054
86-003059
86-003078
86-005205
Dibenzo-p-Dioxins
86-001865
Dieldrin
86-003059
86-003066
Eutrophication
86-000961
86-001216
86-001219
86-003281
86-005184
Fish Hatchery Effluents
86-001285
86-003376
86-003556
Fish Processing Effluents
86-005229
General
86-000874
86-000945
86-000950
86-001010
86-001036
86-001861
86-003004
86-003056
86-003068
86-003072
86-004008
86-005186
86-005219
Heavy Metals
86-000937

...CONTINUED...
Pollution
Heavy Metals
86-000940
86-000943
86-000949
86-000950
86-000956
86-000957
86-000962
86-000963
86-000967
86-000968
86-001029
86-001854
86-001855
86-001856
86-001858
86-001859
86-001869
86-001870
86-001878
86-001904
86-003004
86-003061
86-003062
86-003071
86-003074
86-003075
86-003082
86-003083
86-003085
86-003087
86-003143
86-005156
86-005159
86-005170
86-005172
86-005175
86-005176
86-005180
86-005181
86-005190
86-005191
86-005199
86-005200
86-005207
86-005212
86-005215
86-005217
86-005245
86-005326
Herbicides
86-005197
86-005211
86-005223
Hexachlorobenzene
86-001860
Highway Runoff
86-003067
Hydrocarbons
86-003083
Industrial Wastes
86-003010
Insecticides
86-000938
86-000965
86-000993
86-001896
86-003054
86-003059
86-003066
86-003078
86-003080
86-003081
86-003111

...CONTINUED...
Pollution
Insecticides
86-005157
86-005189
86-005194
86-005205
86-005260
Iron
86-003004
86-003062
86-005217
Land Use Practices
86-000969
Lead
86-001904
86-003062
86-005191
86-005217
Manganese
86-005175
Mercury
86-000956
86-000957
86-000967
86-000968
86-001858
86-001870
86-003061
86-003071
86-003075
86-003087
86-005180
86-005181
86-005199
86-005200
86-005212
86-005326
Methanol
86-005260
Mine Effluents
86-000966
86-000970
86-000972
86-003058
86-003079
Modeling
86-001987
Nickel
86-001854
Ocean Dumping
86-000960
86-001855
Oil
86-005158
86-005185
Organics
86-003070
Organochlorines
86-000938
86-000948
86-000958
86-000968
86-000971
86-000974
86-001857
86-003054
86-003077
86-003080
86-005157
86-005173
86-005205
86-005216
Organophosphates
86-005189
Pentachlorophenol
86-000965

...CONTINUED...
Pollution
Pesticides
86-003070
pH
86-000944
86-005202
Phenols
86-005260
Piscicides
86-000993
Placer Mining
86-000966
86-000970
86-000972
Pollution Avoidance
86-000946
86-005158
86-005170
86-005202
86-005255
Pollution Detection
86-000947
Polychlorinated Biphenyls
86-000968
86-001862
86-003059
86-003077
86-003078
86-003083
86-005157
Polychlorinated Naphthalenes
86-000959
Power Plants
86-000964
86-003182
Pulp Mill Effluents
86-001914
86-005196
86-005198
Radioactive Wastes
86-005166
Sedimentation
86-000966
86-003290
86-005164
86-005209
86-005220
86-005412
Selenium
86-003071
86-005180
86-005212
Sewage Effluents
86-003057
86-003073
86-005195
86-005206
Surfactants
86-000975
Suspended Solids
86-000941
86-003064
Taste and Odor Problems
86-005203
86-005690
TCDD
86-000942
Techniques/Biomagnification
86-001864
Techniques/Organics
86-001864
Thallium
86-000973
Thermal
86-000643

...CONTINUED...
Pollution
Thermal
86-001863
86-001871
86-002821
Thermal Pollution
86-005221
Toluene
86-005260
Toxaphene
86-000993
Trace Metals
86-003082
86-003083
86-005176
86-005180
86-005212
Treatment Plant Effluents
86-000911
86-001104
Turbidity
86-004755
86-005420
Zinc
86-000940
86-001029
86-001854
86-001859
86-001869
86-001878
86-003062
86-005191
86-005199
86-005217
86-005245
Statistical Methods
Age/Length Composition
86-001203
Analysis of Covariance
86-003274
Catch-Per-Unit-Effort
86-001983
86-004315
Computer Applications
86-003272
Computer Techniques/Programs
86-001984
Fisherman Surveys
86-005432
General
86-001204
86-001205
86-001977
Harvest
86-001983
Intervention Analysis
86-005538
Mortality Rates
86-005557
Population Studies
86-001215
86-004348
86-005568
Pre-Impoundment Studies
86-005619
Regression Analysis
86-005553
Risk Analysis
86-005541
Sampling
86-001203
86-001215
Stock Assessment
86-001984
Variability
86-003274
Stocking/Introductions
Exotic Species
86-001174
86-001969
86-003236
86-003237
86-003240
86-003241
86-003242
86-003247
86-003248
86-003249
86-003251
86-004701
86-005466
86-005473
86-005481
86-005485
86-005487
Exotic Species/Africa: Lake Malawi
86-001171
Fingerling Stocking
86-003252
86-005472
86-005483
86-005484
Fish Importation
86-001174
Forage Introductions
86-003244
86-005469
Fry Stocking
86-001173
86-002881
86-003243
86-003245
General
86-005475
86-005482
General/Colorado
86-001176
General/United States
86-003250
Hybridization
86-000722
86-001177
86-003239
86-005467
86-005471
Management/Research--General
86-005480
Management/Research--Lakes
86-001168
86-002710
86-003246
86-005470
86-005478
86-005479
86-005486
86-005579
Management/Research--Marine
86-003238
Management/Research--Ponds
86-003235
86-005467
86-005471
Management/Research--Reservoirs
86-000722
86-001170
86-001175
86-003234
86-003239
86-005620
Management/Research--Rivers and Streams
86-002824

...CONTINUED...
Stocking/Introductions
Streams
86-003252
Put-and-Take
86-001172
86-005468
86-005482
86-005488
Put-Grow-and-Take
86-001175
Reintroductions
86-005476
86-005480
Supplemental Stocking
86-001970
86-003238
86-005470
86-005474
86-005486
Survival
86-000015
86-000722
86-001169
86-001175
86-001970
86-003246
86-003252
86-005474
86-005479
Techniques
86-001170
Transplanted Species
86-001969
Wild Trout Management
86-005482
Techniques
Acoustical Methods
86-000087
86-001275
86-001277
86-003361
86-003364
86-003365
86-003369
86-005489
86-005691
86-005692
86-005694
86-005695
86-005696
86-005697
86-005698
86-005699
86-005700
86-005702
86-005705
86-005709
86-005714
86-005715
86-005717
86-005718
86-005719
86-005720
86-005721
86-005723
86-005726
86-005728
86-005731
Aerial Surveys
86-003363
Age/Growth
86-000721
86-000723
86-000726
86-000728
...CONTINUED...
Techniques
Age/Growth
86-000730
86-000743
86-000744
86-001699
86-002817
86-002823
86-002835
86-004588
86-004628
86-004629
86-004630
86-004645
86-004658
Bioenergetics
86-002785
Biomass
86-001627
Computer Applications
86-003277
86-003620
86-005713
Creel Census
86-001151
86-001152
86-003215
86-005422
86-005438
Data Storage/Retrieval
86-003615
86-005701
86-005703
86-005704
86-005710
86-005722
Egg Counting
86-000117
Egg Identification
86-001276
86-005716
Fish Illustrations
86-001271
86-001272
86-001273
86-001274
86-002015
86-002016
86-002017
86-002018
86-005706
86-005707
86-005708
86-005725
86-005727
86-005729
86-005730
Fish Preservation
86-005711
86-005712
Fisherman Surveys
86-001956
86-001958
Flow Regimes
86-001233
86-005598
Foods/Feeding
86-000654
86-000675
86-001665
86-001667
86-002785
86-003552
86-003988
86-004484

...CONTINUED...
Techniques
Foods/Feeding
86-004491
86-004492
86-004528
86-004563
86-004585
Foods/Feeding/Selectivity
86-002786
General
86-005635
Habitat Evaluation
86-001234
Ichthyoplankton
86-002714
Larvae Identification
86-005724
Marking/Tagging/Biological
86-001967
86-005461
Marking/Tagging/Branding
86-001966
86-005459
Marking/Tagging/Dyes
86-003231
Marking/Tagging/Eggs
86-001166
Marking/Tagging/Fin-Clipping
86-001162
Marking/Tagging/Fluorescent Pigments
86-003229
Marking/Tagging/General
86-001162
86-001163
86-001164
86-001966
86-003233
86-005463
Marking/Tagging/Genetic Markers
86-003227
86-005456
86-005464
86-005465
Marking/Tagging/Magnetic Tags
86-001159
Marking/Tagging/Misc. Tags
86-003228
86-003230
86-003232
Marking/Tagging/Telemetry
86-000631
86-000635
86-000636
86-000649
86-000946
86-001160
86-001161
86-001167
86-003226
86-003369
86-005458
86-005462
Marking/Tagging/Tetracycline
86-001165
86-001166
86-003225
86-005460
Marking/Tagging/Wire Tags
86-001159
86-005457
Misc. Equipment/Stomach Samplers
86-004563
Mortality Rates
86-004324

...CONTINUED...
Techniques
Museum Collections
86-003368
Museum Techniques
86-003370
Otolith Preparation
86-000744
86-004645
Otolith Removal
86-004588
Otoliths
86-002019
Photography
86-003367
Population Studies
86-000593
86-000594
86-001614
86-001621
86-001627
86-001734
86-002014
86-002711
86-002714
86-002722
86-002723
86-002734
86-002735
86-003256
86-003277
86-003310
86-003362
86-003363
86-003364
86-004315
86-004326
86-004350
86-005693
86-005720
86-005732
Predator/Prey Relationships
86-000665
86-004603
Remote Sensing
86-003359
86-003623
86-005733
Satellite Imagery
86-003366
86-003371
Scuba
86-002014
86-003360
Toxicology
Acidification
86-005238
Acrylamide
86-003117
86-005316
Aflatoxins
86-000978
Aldrin
86-005323
Algicides
86-005324
Alicyclic Hexanes
86-000985
Alkanes
86-001889
Alpha-Terthienyl
86-001932
Aluminum
86-001347
86-001909
86-001910

...CONTINUED...
Toxicology
Aluminum
86-001912
86-001915
86-005215
86-005241
86-005256
86-005287
86-005317
86-005328
Aminocarb
86-001026
Ammonia
86-001287
86-001891
86-003128
86-003152
86-003159
86-003160
86-005248
86-005264
86-005329
Ammonium
86-001880
86-003141
Ammonium Sulfate
86-003133
Anesthetics
86-001007
86-001887
86-003162
86-005278
86-005333
Anisoles
86-003147
Anthracene
86-005296
Antimycin
86-003109
Aroclor
86-001883
Aromatic Amines
86-003116
Aromatic Hydrocarbons
86-000955
86-003134
86-003156
86-005242
86-005280
86-005296
86-005297
Arsenic
86-005307
86-005315
Asbestos
86-001877
Baycarb
86-005228
Bayer 73
86-001043
Benthiocarb
86-005269
Benzidine
86-000978
Benzo(a)pyrene
86-000978
86-003099
86-003110
BHC
86-001930
Bioassay Techniques
86-000334
86-000983
86-000990
86-001035

...CONTINUED...
Toxicology
Bioassay Techniques
86-001041
86-001926
86-001931
86-003129
86-005231
86-005237
86-005244
86-005250
86-005251
86-005254
86-005270
86-005284
86-005289
Biological Monitoring
86-005250
Biomagnification
86-003137
86-003140
Bionex
86-005228
Cadmium
86-000987
86-001002
86-001021
86-001029
86-001032
86-001038
86-001039
86-001453
86-001874
86-001890
86-001899
86-001900
86-001908
86-001917
86-001918
86-001928
86-003099
86-003100
86-003106
86-003131
86-003145
86-003161
86-003163
86-003164
86-005199
86-005225
86-005235
86-005236
86-005247
86-005249
86-005259
86-005262
86-005277
86-005285
86-005291
86-005315
Calcium
86-005328
Carbamates
86-000997
86-003125
86-005309
Carbaryl
86-005304
Carbofuran
86-000994
86-003111
86-005309
Carbon Tetrachloride
86-005239
Carboxylic Acid
86-003147

...CONTINUED...
Toxicology
Carcinogens
86-003108
86-003136
86-005234
86-005265
86-005268
86-005299
86-005314
Chemical Registration
86-002038
Chlordane
86-003140
Chlorinated Benzenes
86-001032
Chlorinated Dibenzo-p-Dioxins
86-001913
Chlorinated Dibenzofurans
86-001913
Chlorinated Diphenyl Ethers
86-000989
Chlorinated Hydrocarbons
86-001905
86-003101
Chlorine
86-003154
86-005255
Chlorothalonil
86-000991
86-001892
86-001893
86-001894
Chlorpyrifos
86-001903
Chromium
86-001897
86-005315
Ciguatera
86-004410
86-005273
86-005275
Copper
86-001004
86-001005
86-001006
86-001017
86-001874
86-001885
86-001886
86-001918
86-001921
86-003088
86-003144
86-003145
86-005199
86-005247
86-005267
86-005283
86-005293
86-005315
Copper Sulfate
86-000981
86-003109
Cyanide
86-000999
86-001019
86-003152
86-005306
Cyclodiene
86-005330
Cypermethrin
86-003081
86-005228
86-005252
Cythion
86-003119

...CONTINUED...
Toxicology
DBNPA
86-001009
DCP
86-005236
DDT
86-001011
86-001022
DEN
86-005314
Detergents
86-001000
Diammonium Phosphate
86-001013
Diazinon
86-005253
Dieldrin
86-001032
86-001920
Diethylnitrosamine
86-000932
86-003136
Dinitrobenzene
86-003118
Dioxin
86-001911
86-003097
86-003114
86-003115
Diquat
86-003109
Dithiocarbamates
86-001031
DMBA
86-005314
DMF
86-005303
Dylox
86-003109
Emisan
86-003142
Endosulfan
86-001023
86-003105
Endrin
86-000984
Eptam
86-005308
Ethanol
86-003162
Eugenol
86-003162
Eulan WA New
86-003124
Fenitrothion
86-000980
86-005309
Fennosan F50
86-001034
Fenvalerate
86-003092
Fertilizers
86-001013
86-003133
86-003141
Fire Retardants
86-005232
Fish Processing Effluents
86-005229
Flocculants
86-003091
Fluridone
86-001902
Formalin
86-003096

...CONTINUED...
Toxicology
Formalin
86-003109
86-003123
Fungicides
86-000991
86-001040
86-003142
86-005298
Furanace
86-003109
General
86-000992
86-000995
86-001010
86-001036
86-001446
86-001927
86-001931
86-003130
86-005282
86-005288
General/Registration
86-005311
Heavy Metals
86-000982
86-000987
86-000988
86-000996
86-001002
86-001004
86-001005
86-001006
86-001014
86-001016
86-001017
86-001018
86-001020
86-001021
86-001024
86-001028
86-001029
86-001030
86-001032
86-001038
86-001039
86-001347
86-001453
86-001859
86-001874
86-001878
86-001881
86-001885
86-001886
86-001890
86-001893
86-001895
86-001897
86-001899
86-001900
86-001904
86-001908
86-001909
86-001910
86-001912
86-001915
86-001917
86-001918
86-001919
86-001921
86-001925
86-001928
86-003088
86-003089
86-003093

...CONTINUED...
Toxicology
Heavy Metals
86-003095
86-003099
86-003100
86-003106
86-003113
86-003131
86-003135
86-003143
86-003144
86-003145
86-003149
86-003161
86-003163
86-003164
86-005170
86-005199
86-005215
86-005225
86-005235
86-005236
86-005241
86-005245
86-005246
86-005247
86-005249
86-005256
86-005259
86-005262
86-005263
86-005267
86-005274
86-005277
86-005283
86-005285
86-005286
86-005287
86-005291
86-005293
86-005295
86-005301
86-005306
86-005307
86-005315
86-005317
86-005326
Heptachlor
86-005323
Herbicides
86-000981
86-003125
86-005211
86-005223
86-005269
86-005290
86-005308
Hexachlorobenzene
86-001907
Hydrocarbons
86-000985
86-001888
Hydrothol
86-005290
Insecticides
86-000980
86-000981
86-000984
86-000993
86-000994
86-001011
86-001022
86-001023
86-001026
86-001032

...CONTINUED...
Toxicology
Insecticides
86-001875
86-001896
86-001903
86-001905
86-001920
86-001930
86-003081
86-003092
86-003105
86-003111
86-003119
86-003137
86-003151
86-005228
86-005243
86-005253
86-005258
86-005260
86-005271
86-005272
86-005279
86-005304
86-005323
Jellyfish Toxin
86-001879
Jet Fuel
86-005250
Lampricides
86-005281
86-005332
Lead
86-001017
86-001890
86-001904
86-003095
86-003113
86-005315
Lindane
86-003137
Malachite Green
86-003109
86-003123
Malathion
86-001930
86-003105
MAM-AC
86-005265
Maneb
86-001032
Manure
86-003122
Mercuric Chloride
86-005257
Mercury
86-000988
86-001014
86-001016
86-001017
86-001020
86-001030
86-001895
86-003089
86-003093
86-003135
86-003144
86-005199
86-005249
86-005286
86-005315
86-005326
Methanol
86-005260
86-005303

...CONTINUED...
Toxicology
Methidation
86-000981
Methoxychlor
86-001905
86-005271
86-005272
Methyl Mercuric Chloride
86-001906
Methylcholanthrene
86-000978
MNNG
86-005265
Modeling
86-005108
86-005312
Modown
86-005308
MS-222
86-001887
86-005333
Naled
86-005243
Naphthalene
86-001922
86-003158
Naphthenic Hydrocarbons
86-001888
Nickel
86-001874
Nitrate
86-003160
Nitrite
86-000895
86-003121
86-003152
86-003160
86-005322
Oil
86-000985
86-001008
86-001015
86-001901
86-001917
86-001922
86-003148
86-003158
86-005266
86-005302
86-005305
Oil Refinery Effluents
86-003138
Oil Shale Effluents
86-001037
86-003120
Organics
86-001001
Organochlorides
86-001930
Organochlorines
86-001022
86-001875
86-001920
86-003119
86-005323
Organophosphates
86-000997
86-001930
86-003119
86-005243
86-005253
86-005309
Oroclor
86-000978
Parapest
86-005228

...CONTINUED...
Toxicology
Paraquat
86-000981
Parathion
86-001032
Pentachlorophenate
86-003150
Pentachlorophenol
86-001032
86-001040
86-001042
86-003107
86-005236
86-005294
Permethrin
86-000988
Pesticides
86-001031
86-001043
86-003132
86-005292
86-005330
pH
86-000130
86-000200
86-000977
86-000979
86-000998
86-001003
86-001025
86-001033
86-001881
86-001909
86-001910
86-001912
86-001916
86-001923
86-001929
86-002289
86-002311
86-002681
86-003090
86-003135
86-003139
86-003862
86-005238
86-005240
86-005241
86-005247
86-005256
86-005261
86-005310
86-005313
86-005318
86-005319
86-005327
86-005328
86-005331
Phenols
86-001012
86-001882
86-001924
86-003112
86-003147
86-003152
86-005260
86-005321
Phenthoate
86-005304
Phenylxylylethanes
86-003146
Phosphamidon
86-005279
Phosphate Esters
86-001884

...CONTINUED...
Toxicology
Piscicides
86-000993
86-001336
86-001932
86-001965
86-003104
86-003166
86-003167
86-003168
86-003224
86-005281
86-005332
Piscicides/Registration
86-002038
Polychlorinated Biphenyls
86-000986
86-001008
86-001011
86-001917
86-003098
86-003140
Potassium Permanganate
86-003109
86-003123
Propanidid
86-005278
Pulp Mill Effluents
86-001012
86-001914
86-003157
86-005320
86-005325
Pyrethroids
86-003092
Quinoline
86-001876
Radiation
86-000382
Radionuclides
86-003155
Research Test Fish
86-002570
86-003060
86-005231
Rotenone
86-003104
86-003109
86-003168
Rotenone/Detoxification
86-003166
Salt
86-003109
Saponified Castor Oil
86-005324
Selenium
86-001898
86-003102
86-003103
86-003153
86-005233
Shellcarb
86-005228
Silver
86-001017
Sister-Chromatid Exchange Assay
86-001926
Slimecides
86-001034
Sodium Chloride
86-003096
Sodium Pentachlorophenate
86-005230
86-005262
Solricin
86-005324

...CONTINUED...
Toxicology
Solvents
86-005303
Surfactants
86-003165
86-005213
86-005300
Synthetic Polyelectrolytes
86-003091
Synthetic Pyrethrins
86-003151
86-005252
TCDD
86-000942
Techniques/Organochlorines
86-001875
Teknar
86-005258
Tetrabutyl Stannate
86-005298
Tetraethyl Stannate
86-005298
TFM
86-001043
86-001336
86-001965
86-003167
86-003224
86-005281
86-005332
Thiocyanate
86-000999
Toluene
86-003158
86-005260
Toxaphene
86-000993
86-003140
Toxic Algae
86-003126
Trace Metals
86-003102
86-003153
86-005226
86-005233
86-005274
Treflan
86-005308
Trialkyl-aryl Phosphate
86-005232
Tumors
86-003108
Vanadium
86-003153
Xenobiotics
86-001027
86-001876
86-005227
86-005276
Xylenes
86-005280
Zinc
86-001017
86-001021
86-001024
86-001029
86-001859
86-001874
86-001878
86-001893
86-001918
86-001925
86-003144
86-003145
86-003149

...CONTINUED...
Toxicology
Zinc
86-005199
86-005245
86-005246
86-005247
86-005295
4-Chlorodiphenyl Ether
86-003094
Utilization of Fishery Products
Community Fishery Centers
86-001936
Fish as Food
86-001270
86-002013
Marketing
86-001270
86-003357
86-003358
Taste and Odor Problems
86-005690
Water Use/Conservation
Water Allocations
86-003372
Watershed Management
86-000969

U.S. GOVERNMENT PRINTING OFFICE:1987- 773-074/60001

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interests of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.

UNITED STATES
DEPARTMENT OF THE INTERIOR
FISH AND WILDLIFE SERVICE
EDITORIAL SECTION
1025 PENNOCK PLACE
FORT COLLINS, CO 80524

PRESORTED
SPECIAL FOURTH-CLASS RATE
POSTAGE & FEES PAID
USDI
PERMIT No. G-77

OTHER0003971
Library
Natl. Marine Fish Service
2570 Dole St.
Honolulu, HI 96822-2396